



Table with 4 columns: COSTO DE X1, COSTO DE X2, COSTO DE X3, COSTO DE X4. Each column contains a list of items (e.g., CPX101, CPX102) and their corresponding lot numbers (1-4).

Table with 4 columns: COSTO DE Y1, COSTO DE Y2, COSTO DE Y3, COSTO DE Y4. Each column contains a list of items (e.g., CSY111, CSY112) and their corresponding lot numbers (1-4).

Table with 4 columns: COSTO DE Z1, COSTO DE Z2, COSTO DE Z3, COSTO DE Z4. Each column contains a list of items (e.g., CHZ111, CHZ112) and their corresponding lot numbers (1-4).

Table with 4 columns: COSTO DE V1, COSTO DE V2, COSTO DE V3, COSTO DE V4. Each column contains a list of items (e.g., CCV111, CCV112) and their corresponding lot numbers (1-4).

RESTRICCIONES DE DISPONIBILIDAD PARA LOS INGREDIENTES DEL TIPO 1

Ingrediente	Día	Lote					
		1	2	3	4		
1	1	X111 +	X121 +	X131 +	X141	<	DX11
2	1	X211 +	X221 +	X231 +	X241	<	DX21
3	1	X311 +	X321 +	X331 +	X341	<	DX31
4	1	X411 +	X421 +	X431 +	X441	<	DX41
1	2	X112 +	X122 +	X132 +	X142	<	DX12
2	2	X212 +	X222 +	X232 +	X242	<	DX22
3	2	X312 +	X322 +	X332 +	X342	<	DX32
4	2	X412 +	X422 +	X432 +	X442	<	DX42
1	3	X113 +	X123 +	X133 +	X143	<	DX13
2	3	X213 +	X223 +	X233 +	X243	<	DX23
3	3	X313 +	X323 +	X333 +	X343	<	DX33
4	3	X413 +	X423 +	X433 +	X443	<	DX43
1	4	X114 +	X124 +	X134 +	X144	<	DX14
2	4	X214 +	X224 +	X234 +	X244	<	DX24
3	4	X314 +	X324 +	X334 +	X344	<	DX34
4	4	X414 +	X424 +	X434 +	X444	<	DX44
1	5	X115 +	X125 +	X135 +	X145	<	DX15
2	5	X215 +	X225 +	X235 +	X245	<	DX25
3	5	X315 +	X325 +	X335 +	X345	<	DX35
4	5	X415 +	X425 +	X435 +	X445	<	DX45
1	6	X116 +	X126 +	X136 +	X146	<	DX16
2	6	X216 +	X226 +	X236 +	X246	<	DX26
3	6	X316 +	X326 +	X336 +	X346	<	DX36
4	6	X416 +	X426 +	X436 +	X446	<	DX46
1	7	X117 +	X127 +	X137 +	X147	<	DX17
2	7	X217 +	X227 +	X237 +	X247	<	DX27
3	7	X317 +	X327 +	X337 +	X347	<	DX37
4	7	X417 +	X427 +	X437 +	X447	<	DX47
1	8	X118 +	X128 +	X138 +	X148	<	DX18
2	8	X218 +	X228 +	X238 +	X248	<	DX28
3	8	X318 +	X328 +	X338 +	X348	<	DX38
4	8	X418 +	X428 +	X438 +	X448	<	DX48
1	9	X119 +	X129 +	X139 +	X149	<	DX19
2	9	X219 +	X229 +	X239 +	X249	<	DX29
3	9	X319 +	X329 +	X339 +	X349	<	DX39
4	9	X419 +	X429 +	X439 +	X449	<	DX49
1	10	X1110 +	X1210 +	X1310 +	X1410	<	DX110
2	10	X2110 +	X2210 +	X2310 +	X2410	<	DX210
3	10	X3110 +	X3210 +	X3310 +	X3410	<	DX310
4	10	X4110 +	X4210 +	X4310 +	X4410	<	DX410
1	11	X1111 +	X1211 +	X1311 +	X1411	<	DX111
2	11	X2111 +	X2211 +	X2311 +	X2411	<	DX211
3	11	X3111 +	X3211 +	X3311 +	X3411	<	DX311
4	11	X4111 +	X4211 +	X4311 +	X4411	<	DX411
1	12	X1112 +	X1212 +	X1312 +	X1412	<	DX112
2	12	X2112 +	X2212 +	X2312 +	X2412	<	DX212
3	12	X3112 +	X3212 +	X3312 +	X3412	<	DX312
4	12	X4112 +	X4212 +	X4312 +	X4412	<	DX412
1	13	X1113 +	X1213 +	X1313 +	X1413	<	DX113
2	13	X2113 +	X2213 +	X2313 +	X2413	<	DX213
3	13	X3113 +	X3213 +	X3313 +	X3413	<	DX313
4	13	X4113 +	X4213 +	X4313 +	X4413	<	DX413
1	14	X1114 +	X1214 +	X1314 +	X1414	<	DX114
2	14	X2114 +	X2214 +	X2314 +	X2414	<	DX214
3	14	X3114 +	X3214 +	X3314 +	X3414	<	DX314
4	14	X4114 +	X4214 +	X4314 +	X4414	<	DX414
1	15	X1115 +	X1215 +	X1315 +	X1415	<	DX115
2	15	X2115 +	X2215 +	X2315 +	X2415	<	DX215
3	15	X3115 +	X3215 +	X3315 +	X3415	<	DX315
4	15	X4115 +	X4215 +	X4315 +	X4415	<	DX415
1	16	X1116 +	X1216 +	X1316 +	X1416	<	DX116
2	16	X2116 +	X2216 +	X2316 +	X2416	<	DX216
3	16	X3116 +	X3216 +	X3316 +	X3416	<	DX316
4	16	X4116 +	X4216 +	X4316 +	X4416	<	DX416
1	17	X1117 +	X1217 +	X1317 +	X1417	<	DX117
2	17	X2117 +	X2217 +	X2317 +	X2417	<	DX217
3	17	X3117 +	X3217 +	X3317 +	X3417	<	DX317
4	17	X4117 +	X4217 +	X4317 +	X4417	<	DX417
1	18	X1118 +	X1218 +	X1318 +	X1418	<	DX118
2	18	X2118 +	X2218 +	X2318 +	X2418	<	DX218
3	18	X3118 +	X3218 +	X3318 +	X3418	<	DX318
4	18	X4118 +	X4218 +	X4318 +	X4418	<	DX418
1	19	X1119 +	X1219 +	X1319 +	X1419	<	DX119
2	19	X2119 +	X2219 +	X2319 +	X2419	<	DX219
3	19	X3119 +	X3219 +	X3319 +	X3419	<	DX319
4	19	X4119 +	X4219 +	X4319 +	X4419	<	DX419
1	20	X1120 +	X1220 +	X1320 +	X1420	<	DX120
2	20	X2120 +	X2220 +	X2320 +	X2420	<	DX220
3	20	X3120 +	X3220 +	X3320 +	X3420	<	DX320
4	20	X4120 +	X4220 +	X4320 +	X4420	<	DX420
1	21	X1121 +	X1221 +	X1321 +	X1421	<	DX121
2	21	X2121 +	X2221 +	X2321 +	X2421	<	DX221
3	21	X3121 +	X3221 +	X3321 +	X3421	<	DX321
4	21	X4121 +	X4221 +	X4321 +	X4421	<	DX421
1	22	X1122 +	X1222 +	X1322 +	X1422	<	DX122
2	22	X2122 +	X2222 +	X2322 +	X2422	<	DX222
3	22	X3122 +	X3222 +	X3322 +	X3422	<	DX322
4	22	X4122 +	X4222 +	X4322 +	X4422	<	DX422
1	23	X1123 +	X1223 +	X1323 +	X1423	<	DX123
2	23	X2123 +	X2223 +	X2323 +	X2423	<	DX223
3	23	X3123 +	X3223 +	X3323 +	X3423	<	DX323
4	23	X4123 +	X4223 +	X4323 +	X4423	<	DX423
1	24	X1124 +	X1224 +	X1324 +	X1424	<	DX124
2	24	X2124 +	X2224 +	X2324 +	X2424	<	DX224
3	24	X3124 +	X3224 +	X3324 +	X3424	<	DX324
4	24	X4124 +	X4224 +	X4324 +	X4424	<	DX424
1	25	X1125 +	X1225 +	X1325 +	X1425	<	DX125
2	25	X2125 +	X2225 +	X2325 +	X2425	<	DX225
3	25	X3125 +	X3225 +	X3325 +	X3425	<	DX325
4	25	X4125 +	X4225 +	X4325 +	X4425	<	DX425
1	26	X1126 +	X1226 +	X1326 +	X1426	<	DX126
2	26	X2126 +	X2226 +	X2326 +	X2426	<	DX226
3	26	X3126 +	X3226 +	X3326 +	X3426	<	DX326
4	26	X4126 +	X4226 +	X4326 +	X4426	<	DX426
1	27	X1127 +	X1227 +	X1327 +	X1427	<	DX127
2	27	X2127 +	X2227 +	X2327 +	X2427	<	DX227
3	27	X3127 +	X3227 +	X3327 +	X3427	<	DX327
4	27	X4127 +	X4227 +	X4327 +	X4427	<	DX427
1	28	X1128 +	X1228 +	X1328 +	X1428	<	DX128
2	28	X2128 +	X2228 +	X2328 +	X2428	<	DX228
3	28	X3128 +	X3228 +	X3328 +	X3428	<	DX328
4	28	X4128 +	X4228 +	X4328 +	X4428	<	DX428
1	29	X1129 +	X1229 +	X1329 +	X1429	<	DX129
2	29	X2129 +	X2229 +	X2329 +	X2429	<	DX229
3	29	X3129 +	X3229 +	X3329 +	X3429	<	DX329
4	29	X4129 +	X4229 +	X4329 +	X4429	<	DX429
1	30	X1130 +	X1230 +	X1330 +	X1430	<	DX130
2	30	X2130 +	X2230 +	X2330 +	X2430	<	DX230
3	30	X3130 +	X3230 +	X3330 +	X3430	<	DX330
4	30	X4130 +	X4230 +	X4330 +	X4430	<	DX430

RESTRICCIONES DE DISPONIBILIDAD PARA LOS INGREDIENTES DEL TIPO 2

Ingrediente	Día	Lote					
		1	2	3	4		
1	1	Y111 +	Y121 +	Y131 +	Y141	<	DY11
2	1	Y211 +	Y221 +	Y231 +	Y241	<	DY21
3	1	Y311 +	Y321 +	Y331 +	Y341	<	DY31
4	1	Y411 +	Y421 +	Y431 +	Y441	<	DY41
1	2	Y112 +	Y122 +	Y132 +	Y142	<	DY12
2	2	Y212 +	Y222 +	Y232 +	Y242	<	DY22
3	2	Y312 +	Y322 +	Y332 +	Y342	<	DY32
4	2	Y412 +	Y422 +	Y432 +	Y442	<	DY42
1	3	Y113 +	Y123 +	Y133 +	Y143	<	DY13
2	3	Y213 +	Y223 +	Y233 +	Y243	<	DY23
3	3	Y313 +	Y323 +	Y333 +	Y343	<	DY33
4	3	Y413 +	Y423 +	Y433 +	Y443	<	DY43
1	4	Y114 +	Y124 +	Y134 +	Y144	<	DY14
2	4	Y214 +	Y224 +	Y234 +	Y244	<	DY24
3	4	Y314 +	Y324 +	Y334 +	Y344	<	DY34
4	4	Y414 +	Y424 +	Y434 +	Y444	<	DY44
1	5	Y115 +	Y125 +	Y135 +	Y145	<	DY15
2	5	Y215 +	Y225 +	Y235 +	Y245	<	DY25
3	5	Y315 +	Y325 +	Y335 +	Y345	<	DY35
4	5	Y415 +	Y425 +	Y435 +	Y445	<	DY45
1	6	Y116 +	Y126 +	Y136 +	Y146	<	DY16
2	6	Y216 +	Y226 +	Y236 +	Y246	<	DY26
3	6	Y316 +	Y326 +	Y336 +	Y346	<	DY36
4	6	Y416 +	Y426 +	Y436 +	Y446	<	DY46
1	7	Y117 +	Y127 +	Y137 +	Y147	<	DY17
2	7	Y217 +	Y227 +	Y237 +	Y247	<	DY27
3	7	Y317 +	Y327 +	Y337 +	Y347	<	DY37
4	7	Y417 +	Y427 +	Y437 +	Y447	<	DY47
1	8	Y118 +	Y128 +	Y138 +	Y148	<	DY18
2	8	Y218 +	Y228 +	Y238 +	Y248	<	DY28
3	8	Y318 +	Y328 +	Y338 +	Y348	<	DY38
4	8	Y418 +	Y428 +	Y438 +	Y448	<	DY48
1	9	Y119 +	Y129 +	Y139 +	Y149	<	DY19
2	9	Y219 +	Y229 +	Y239 +	Y249	<	DY29
3	9	Y319 +	Y329 +	Y339 +	Y349	<	DY39
4	9	Y419 +	Y429 +	Y439 +	Y449	<	DY49
1	10	Y1110 +	Y1210 +	Y1310 +	Y1410	<	DY110
2	10	Y2110 +	Y2210 +	Y2310 +	Y2410	<	DY210
3	10	Y3110 +	Y3210 +	Y3310 +	Y3410	<	DY310
4	10	Y4110 +	Y4210 +	Y4310 +	Y4410	<	DY410
1	11	Y1111 +	Y1211 +	Y1311 +	Y1411	<	DY111
2	11	Y2111 +	Y2211 +	Y2311 +	Y2411	<	DY211
3	11	Y3111 +	Y3211 +	Y3311 +	Y3411	<	DY311
4	11	Y4111 +	Y4211 +	Y4311 +	Y4411	<	DY411
1	12	Y1112 +	Y1212 +	Y1312 +	Y1412	<	DY112
2	12	Y2112 +	Y2212 +	Y2312 +	Y2412	<	DY212
3	12	Y3112 +	Y3212 +	Y3312 +	Y3412	<	DY312
4	12	Y4112 +	Y4212 +	Y4312 +	Y4412	<	DY412
1	13	Y1113 +	Y1213 +	Y1313 +	Y1413	<	DY113
2	13	Y2113 +	Y2213 +	Y2313 +	Y2413	<	DY213
3	13	Y3113 +	Y3213 +	Y3313 +	Y3413	<	DY313
4	13	Y4113 +	Y4213 +	Y4313 +	Y4413	<	DY413
1	14	Y1114 +	Y1214 +	Y1314 +	Y1414	<	DY114
2	14	Y2114 +	Y2214 +	Y2314 +	Y2414	<	DY214
3	14	Y3114 +	Y3214 +	Y3314 +	Y3414	<	DY314
4	14	Y4114 +	Y4214 +	Y4314 +	Y4414	<	DY414
1	15	Y1115 +	Y1215 +	Y1315 +	Y1415	<	DY115
2	15	Y2115 +	Y2215 +	Y2315 +	Y2415	<	DY215
3	15	Y3115 +	Y3215 +	Y3315 +	Y3415	<	DY315
4	15	Y4115 +	Y4215 +	Y4315 +	Y4415	<	DY415
1	16	Y1116 +	Y1216 +	Y1316 +	Y1416	<	DY116
2	16	Y2116 +	Y2216 +	Y2316 +	Y2416	<	DY216
3	16	Y3116 +	Y3216 +	Y3316 +	Y3416	<	DY316
4	16	Y4116 +	Y4216 +	Y4316 +	Y4416	<	DY416
1	17	Y1117 +	Y1217 +	Y1317 +	Y1417	<	DY117
2	17	Y2117 +	Y2217 +	Y2317 +	Y2417	<	DY217
3	17	Y3117 +	Y3217 +	Y3317 +	Y3417	<	DY317
4	17	Y4117 +	Y4217 +	Y4317 +	Y4417	<	DY417
1	18	Y1118 +	Y1218 +	Y1318 +	Y1418	<	DY118
2	18	Y2118 +	Y2218 +	Y2318 +	Y2418	<	DY218
3	18	Y3118 +	Y3218 +	Y3318 +	Y3418	<	DY318
4	18	Y4118 +	Y4218 +	Y4318 +	Y4418	<	DY418
1	19	Y1119 +	Y1219 +	Y1319 +	Y1419	<	DY119
2	19	Y2119 +	Y2219 +	Y2319 +	Y2419	<	DY219
3	19	Y3119 +	Y3219 +	Y3319 +	Y3419	<	DY319
4	19	Y4119 +	Y4219 +	Y4319 +	Y4419	<	DY419
1	20	Y1120 +	Y1220 +	Y1320 +	Y1420	<	DY120
2	20	Y2120 +	Y2220 +	Y2320 +	Y2420	<	DY220
3	20	Y3120 +	Y3220 +	Y3320 +	Y3420	<	DY320
4	20	Y4120 +	Y4220 +	Y4320 +	Y4420	<	DY420
1	21	Y1121 +	Y1221 +	Y1321 +	Y1421	<	DY121
2	21	Y2121 +	Y2221 +	Y2321 +	Y2421	<	DY221
3	21	Y3121 +	Y3221 +	Y3321 +	Y3421	<	DY321
4	21	Y4121 +	Y4221 +	Y4321 +	Y4421	<	DY421
1	22	Y1122 +	Y1222 +	Y1322 +	Y1422	<	DY122
2	22	Y2122 +	Y2222 +	Y2322 +	Y2422	<	DY222
3	22	Y3122 +	Y3222 +	Y3322 +	Y3422	<	DY322
4	22	Y4122 +	Y4222 +	Y4322 +	Y4422	<	DY422
1	23	Y1123 +	Y1223 +	Y1323 +	Y1423	<	DY123
2	23	Y2123 +	Y2223 +	Y2323 +	Y2423	<	DY223
3	23	Y3123 +	Y3223 +	Y3323 +	Y3423	<	DY323
4	23	Y4123 +	Y4223 +	Y4323 +	Y4423	<	DY423
1	24	Y1124 +	Y1224 +	Y1324 +	Y1424	<	DY124
2	24	Y2124 +	Y2224 +	Y2324 +	Y2424	<	DY224
3	24	Y3124 +	Y3224 +	Y3324 +	Y3424	<	DY324
4	24	Y4124 +	Y4224 +	Y4324 +	Y4424	<	DY424
1	25	Y1125 +	Y1225 +	Y1325 +	Y1425	<	DY125
2	25	Y2125 +	Y2225 +	Y2325 +	Y2425	<	DY225
3	25	Y3125 +	Y3225 +	Y3325 +	Y3425	<	DY325
4	25	Y4125 +	Y4225 +	Y4325 +	Y4425	<	DY425
1	26	Y1126 +	Y1226 +	Y1326 +	Y1426	<	DY126
2	26	Y2126 +	Y2226 +	Y2326 +	Y2426	<	DY226
3	26	Y3126 +	Y3226 +	Y3326 +	Y3426	<	DY326
4	26	Y4126 +	Y4226 +	Y4326 +	Y4426	<	DY426
1	27	Y1127 +	Y1227 +	Y1327 +	Y1427	<	DY127
2	27	Y2127 +	Y2227 +	Y2327 +	Y2427	<	DY227
3	27	Y3127 +	Y3227 +	Y3327 +	Y3427	<	DY327
4	27	Y4127 +	Y4227 +	Y4327 +	Y4427	<	DY427
1	28	Y1128 +	Y1228 +	Y1328 +	Y1428	<	DY128
2	28	Y2128 +	Y2228 +	Y2328 +	Y2428	<	DY228
3	28	Y3128 +	Y3228 +	Y3328 +	Y3428	<	DY328
4	28	Y4128 +	Y4228 +	Y4328 +	Y4428	<	DY428
1	29	Y1129 +	Y1229 +	Y1329 +	Y1429	<	DY129
2	29	Y2129 +	Y2229 +	Y2329 +	Y2429	<	DY229
3	29	Y3129 +	Y3229 +	Y3329 +	Y3429	<	DY329
4	29	Y4129 +	Y4229 +	Y4329 +	Y4429	<	DY429
1	30	Y1130 +	Y1230 +	Y1330 +	Y1430	<	DY130
2	30	Y2130 +	Y2230 +	Y2330 +	Y2430	<	DY230
3	30	Y3130 +	Y3230 +	Y3330 +	Y3430	<	DY330
4	30	Y4130 +	Y4230 +	Y4330 +	Y4430	<	DY430

REPOSICIÓN DE LA UNIVERSIDAD PONTIFICIA DEL PERÚ







RESTRICCIONES DE DISPONIBILIDAD PARA LOS COMBUSTIBLES

Día	Lote				<	
	1	2	3	4		
1	V111 +	V121 +	V131 +	V141	<	DC11
2	V112 +	V122 +	V132 +	V142	<	DC12
3	V113 +	V123 +	V133 +	V143	<	DC13
4	V114 +	V124 +	V134 +	V144	<	DC14
5	V115 +	V125 +	V135 +	V145	<	DC15
6	V116 +	V126 +	V136 +	V146	<	DC16
7	V117 +	V127 +	V137 +	V147	<	DC17
8	V118 +	V128 +	V138 +	V148	<	DC18
9	V119 +	V129 +	V139 +	V149	<	DC19
10	V1110 +	V1210 +	V1310 +	V1410	<	DC110
11	V1111 +	V1211 +	V1311 +	V1411	<	DC111
12	V1112 +	V1212 +	V1312 +	V1412	<	DC112
13	V1113 +	V1213 +	V1313 +	V1413	<	DC113
14	V1114 +	V1214 +	V1314 +	V1414	<	DC114
15	V1115 +	V1215 +	V1315 +	V1415	<	DC115
16	V1116 +	V1216 +	V1316 +	V1416	<	DC116
17	V1117 +	V1217 +	V1317 +	V1417	<	DC117
18	V1118 +	V1218 +	V1318 +	V1418	<	DC118
19	V1119 +	V1219 +	V1319 +	V1419	<	DC119
20	V1120 +	V1220 +	V1320 +	V1420	<	DC120
21	V1121 +	V1221 +	V1321 +	V1421	<	DC121
22	V1122 +	V1222 +	V1322 +	V1422	<	DC122
23	V1123 +	V1223 +	V1323 +	V1423	<	DC123
24	V1124 +	V1224 +	V1324 +	V1424	<	DC124
25	V1125 +	V1225 +	V1325 +	V1425	<	DC125
26	V1126 +	V1226 +	V1326 +	V1426	<	DC126
27	V1127 +	V1227 +	V1327 +	V1427	<	DC127
28	V1128 +	V1228 +	V1328 +	V1428	<	DC128
29	V1129 +	V1229 +	V1329 +	V1429	<	DC129
30	V1130 +	V1230 +	V1330 +	V1430	<	DC130

Día	Lote				<	
	1	2	3	4		
1	V211 +	V221 +	V231 +	V241	<	DC21
2	V212 +	V222 +	V232 +	V242	<	DC22
3	V213 +	V223 +	V233 +	V243	<	DC23
4	V214 +	V224 +	V234 +	V244	<	DC24
5	V215 +	V225 +	V235 +	V245	<	DC25
6	V216 +	V226 +	V236 +	V246	<	DC26
7	V217 +	V227 +	V237 +	V247	<	DC27
8	V218 +	V228 +	V238 +	V248	<	DC28
9	V219 +	V229 +	V239 +	V249	<	DC29
10	V2110 +	V2210 +	V2310 +	V2410	<	DC210
11	V2111 +	V2211 +	V2311 +	V2411	<	DC211
12	V2112 +	V2212 +	V2312 +	V2412	<	DC212
13	V2113 +	V2213 +	V2313 +	V2413	<	DC213
14	V2114 +	V2214 +	V2314 +	V2414	<	DC214
15	V2115 +	V2215 +	V2315 +	V2415	<	DC215
16	V2116 +	V2216 +	V2316 +	V2416	<	DC216
17	V2117 +	V2217 +	V2317 +	V2417	<	DC217
18	V2118 +	V2218 +	V2318 +	V2418	<	DC218
19	V2119 +	V2219 +	V2319 +	V2419	<	DC219
20	V2120 +	V2220 +	V2320 +	V2420	<	DC220
21	V2121 +	V2221 +	V2321 +	V2421	<	DC221
22	V2122 +	V2222 +	V2322 +	V2422	<	DC222
23	V2123 +	V2223 +	V2323 +	V2423	<	DC223
24	V2124 +	V2224 +	V2324 +	V2424	<	DC224
25	V2125 +	V2225 +	V2325 +	V2425	<	DC225
26	V2126 +	V2226 +	V2326 +	V2426	<	DC226
27	V2127 +	V2227 +	V2327 +	V2427	<	DC227
28	V2128 +	V2228 +	V2328 +	V2428	<	DC228
29	V2129 +	V2229 +	V2329 +	V2429	<	DC229
30	V2130 +	V2230 +	V2330 +	V2430	<	DC230

Día	Lote				<	
	1	2	3	4		
1	V311 +	V321 +	V331 +	V341	<	DC31
2	V312 +	V322 +	V332 +	V342	<	DC32
3	V313 +	V323 +	V333 +	V343	<	DC33
4	V314 +	V324 +	V334 +	V344	<	DC34
5	V315 +	V325 +	V335 +	V345	<	DC35
6	V316 +	V326 +	V336 +	V346	<	DC36
7	V317 +	V327 +	V337 +	V347	<	DC37
8	V318 +	V328 +	V338 +	V348	<	DC38
9	V319 +	V329 +	V339 +	V349	<	DC39
10	V3110 +	V3210 +	V3310 +	V3410	<	DC310
11	V3111 +	V3211 +	V3311 +	V3411	<	DC311
12	V3112 +	V3212 +	V3312 +	V3412	<	DC312
13	V3113 +	V3213 +	V3313 +	V3413	<	DC313
14	V3114 +	V3214 +	V3314 +	V3414	<	DC314
15	V3115 +	V3215 +	V3315 +	V3415	<	DC315
16	V3116 +	V3216 +	V3316 +	V3416	<	DC316
17	V3117 +	V3217 +	V3317 +	V3417	<	DC317
18	V3118 +	V3218 +	V3318 +	V3418	<	DC318
19	V3119 +	V3219 +	V3319 +	V3419	<	DC319
20	V3120 +	V3220 +	V3320 +	V3420	<	DC320
21	V3121 +	V3221 +	V3321 +	V3421	<	DC321
22	V3122 +	V3222 +	V3322 +	V3422	<	DC322
23	V3123 +	V3223 +	V3323 +	V3423	<	DC323
24	V3124 +	V3224 +	V3324 +	V3424	<	DC324
25	V3125 +	V3225 +	V3325 +	V3425	<	DC325
26	V3126 +	V3226 +	V3326 +	V3426	<	DC326
27	V3127 +	V3227 +	V3327 +	V3427	<	DC327
28	V3128 +	V3228 +	V3328 +	V3428	<	DC328
29	V3129 +	V3229 +	V3329 +	V3429	<	DC329
30	V3130 +	V3230 +	V3330 +	V3430	<	DC330

RESTRICCIONES PARA LA FORMACIÓN DE *PELLETS*

Lote	Día	
1	1	Y211 - Z111 = 0
2	1	Y221 - Z121 = 0
3	1	Y231 - Z131 = 0
4	1	Y241 - Z141 = 0
1	2	Y212 - Z112 = 0
2	2	Y222 - Z122 = 0
3	2	Y232 - Z132 = 0
4	2	Y242 - Z142 = 0
1	3	Y213 - Z113 = 0
2	3	Y223 - Z123 = 0
3	3	Y233 - Z133 = 0
4	3	Y243 - Z143 = 0
1	4	Y214 - Z114 = 0
2	4	Y224 - Z124 = 0
3	4	Y234 - Z134 = 0
4	4	Y244 - Z144 = 0
1	5	Y215 - Z115 = 0
2	5	Y225 - Z125 = 0
3	5	Y235 - Z135 = 0
4	5	Y245 - Z145 = 0
1	6	Y216 - Z116 = 0
2	6	Y226 - Z126 = 0
3	6	Y236 - Z136 = 0
4	6	Y246 - Z146 = 0
1	7	Y217 - Z117 = 0
2	7	Y227 - Z127 = 0
3	7	Y237 - Z137 = 0
4	7	Y247 - Z147 = 0
1	8	Y218 - Z118 = 0
2	8	Y228 - Z128 = 0
3	8	Y238 - Z138 = 0
4	8	Y248 - Z148 = 0
1	9	Y219 - Z119 = 0
2	9	Y229 - Z129 = 0
3	9	Y239 - Z139 = 0
4	9	Y249 - Z149 = 0
1	10	Y210 - Z110 = 0
2	10	Y220 - Z120 = 0
3	10	Y230 - Z130 = 0
4	10	Y240 - Z140 = 0
1	11	Y211 - Z111 = 0
2	11	Y221 - Z121 = 0
3	11	Y231 - Z131 = 0
4	11	Y241 - Z141 = 0
1	12	Y212 - Z112 = 0
2	12	Y222 - Z122 = 0
3	12	Y232 - Z132 = 0
4	12	Y242 - Z142 = 0
1	13	Y213 - Z113 = 0
2	13	Y223 - Z123 = 0
3	13	Y233 - Z133 = 0
4	13	Y243 - Z143 = 0
1	14	Y214 - Z114 = 0
2	14	Y224 - Z124 = 0
3	14	Y234 - Z134 = 0
4	14	Y244 - Z144 = 0
1	15	Y215 - Z115 = 0
2	15	Y225 - Z125 = 0
3	15	Y235 - Z135 = 0
4	15	Y245 - Z145 = 0
1	16	Y216 - Z116 = 0
2	16	Y226 - Z126 = 0
3	16	Y236 - Z136 = 0
4	16	Y246 - Z146 = 0
1	17	Y217 - Z117 = 0
2	17	Y227 - Z127 = 0
3	17	Y237 - Z137 = 0
4	17	Y247 - Z147 = 0
1	18	Y218 - Z118 = 0
2	18	Y228 - Z128 = 0
3	18	Y238 - Z138 = 0
4	18	Y248 - Z148 = 0
1	19	Y219 - Z119 = 0
2	19	Y229 - Z129 = 0
3	19	Y239 - Z139 = 0
4	19	Y249 - Z149 = 0
1	20	Y210 - Z110 = 0
2	20	Y220 - Z120 = 0
3	20	Y230 - Z130 = 0
4	20	Y240 - Z140 = 0
1	21	Y2121 - Z1121 = 0
2	21	Y2221 - Z1221 = 0
3	21	Y2321 - Z1321 = 0
4	21	Y2421 - Z1421 = 0
1	22	Y2122 - Z1122 = 0
2	22	Y2222 - Z1222 = 0
3	22	Y2322 - Z1322 = 0
4	22	Y2422 - Z1422 = 0
1	23	Y2123 - Z1123 = 0
2	23	Y2223 - Z1223 = 0
3	23	Y2323 - Z1323 = 0
4	23	Y2423 - Z1423 = 0
1	24	Y2124 - Z1124 = 0
2	24	Y2224 - Z1224 = 0
3	24	Y2324 - Z1324 = 0
4	24	Y2424 - Z1424 = 0
1	25	Y2125 - Z1125 = 0
2	25	Y2225 - Z1225 = 0
3	25	Y2325 - Z1325 = 0
4	25	Y2425 - Z1425 = 0
1	26	Y2126 - Z1126 = 0
2	26	Y2226 - Z1226 = 0
3	26	Y2326 - Z1326 = 0
4	26	Y2426 - Z1426 = 0
1	27	Y2127 - Z1127 = 0
2	27	Y2227 - Z1227 = 0
3	27	Y2327 - Z1327 = 0
4	27	Y2427 - Z1427 = 0
1	28	Y2128 - Z1128 = 0
2	28	Y2228 - Z1228 = 0
3	28	Y2328 - Z1328 = 0
4	28	Y2428 - Z1428 = 0
1	29	Y2129 - Z1129 = 0
2	29	Y2229 - Z1229 = 0
3	29	Y2329 - Z1329 = 0
4	29	Y2429 - Z1429 = 0
1	30	Y2130 - Z1130 = 0
2	30	Y2230 - Z1230 = 0
3	30	Y2330 - Z1330 = 0
4	30	Y2430 - Z1430 = 0

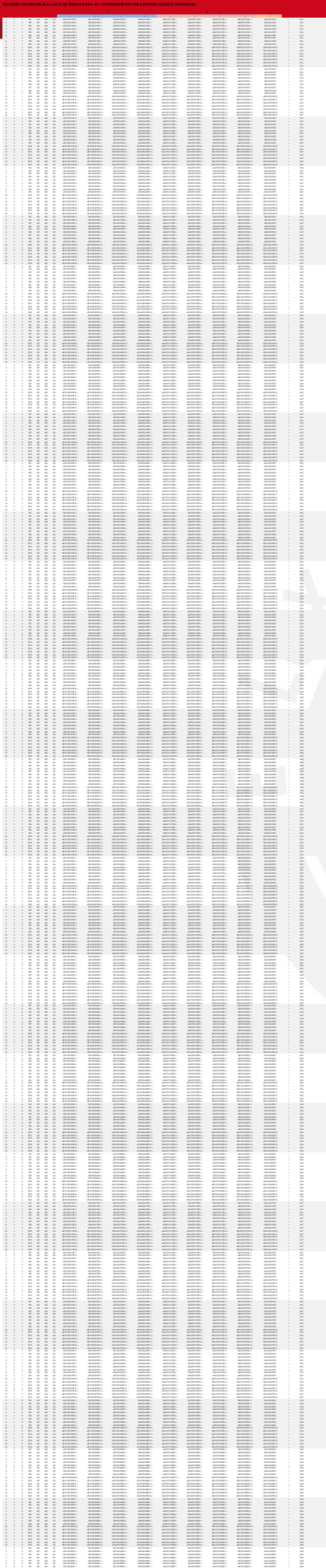




ET LUX IN TENEBRIS LUCET













RESTRICCIONES PARA EL EMPLEO DE LOS INGREDIENTES DEL TIPO 1 (Hj,k)

Lote	Día	Y		Z		
		1	2	1		
1	1	Y111 +	Y211 +	Z111 -	H11	= 0
2	1	Y121 +	Y221 +	Z121 -	H21	= 0
3	1	Y131 +	Y231 +	Z131 -	H31	= 0
4	1	Y141 +	Y241 +	Z141 -	H41	= 0
1	2	Y112 +	Y212 +	Z112 -	H12	= 0
2	2	Y122 +	Y222 +	Z122 -	H22	= 0
3	2	Y132 +	Y232 +	Z132 -	H32	= 0
4	2	Y142 +	Y242 +	Z142 -	H42	= 0
1	3	Y113 +	Y213 +	Z113 -	H13	= 0
2	3	Y123 +	Y223 +	Z123 -	H23	= 0
3	3	Y133 +	Y233 +	Z133 -	H33	= 0
4	3	Y143 +	Y243 +	Z143 -	H43	= 0
1	4	Y114 +	Y214 +	Z114 -	H14	= 0
2	4	Y124 +	Y224 +	Z124 -	H24	= 0
3	4	Y134 +	Y234 +	Z134 -	H34	= 0
4	4	Y144 +	Y244 +	Z144 -	H44	= 0
1	5	Y115 +	Y215 +	Z115 -	H15	= 0
2	5	Y125 +	Y225 +	Z125 -	H25	= 0
3	5	Y135 +	Y235 +	Z135 -	H35	= 0
4	5	Y145 +	Y245 +	Z145 -	H45	= 0
1	6	Y116 +	Y216 +	Z116 -	H16	= 0
2	6	Y126 +	Y226 +	Z126 -	H26	= 0
3	6	Y136 +	Y236 +	Z136 -	H36	= 0
4	6	Y146 +	Y246 +	Z146 -	H46	= 0
1	7	Y117 +	Y217 +	Z117 -	H17	= 0
2	7	Y127 +	Y227 +	Z127 -	H27	= 0
3	7	Y137 +	Y237 +	Z137 -	H37	= 0
4	7	Y147 +	Y247 +	Z147 -	H47	= 0
1	8	Y118 +	Y218 +	Z118 -	H18	= 0
2	8	Y128 +	Y228 +	Z128 -	H28	= 0
3	8	Y138 +	Y238 +	Z138 -	H38	= 0
4	8	Y148 +	Y248 +	Z148 -	H48	= 0
1	9	Y119 +	Y219 +	Z119 -	H19	= 0
2	9	Y129 +	Y229 +	Z129 -	H29	= 0
3	9	Y139 +	Y239 +	Z139 -	H39	= 0
4	9	Y149 +	Y249 +	Z149 -	H49	= 0
1	10	Y1110 +	Y2110 +	Z1110 -	H110	= 0
2	10	Y1210 +	Y2210 +	Z1210 -	H210	= 0
3	10	Y1310 +	Y2310 +	Z1310 -	H310	= 0
4	10	Y1410 +	Y2410 +	Z1410 -	H410	= 0
1	11	Y1111 +	Y2111 +	Z1111 -	H111	= 0
2	11	Y1211 +	Y2211 +	Z1211 -	H211	= 0
3	11	Y1311 +	Y2311 +	Z1311 -	H311	= 0
4	11	Y1411 +	Y2411 +	Z1411 -	H411	= 0
1	12	Y1112 +	Y2112 +	Z1112 -	H112	= 0
2	12	Y1212 +	Y2212 +	Z1212 -	H212	= 0
3	12	Y1312 +	Y2312 +	Z1312 -	H312	= 0
4	12	Y1412 +	Y2412 +	Z1412 -	H412	= 0
1	13	Y1113 +	Y2113 +	Z1113 -	H113	= 0
2	13	Y1213 +	Y2213 +	Z1213 -	H213	= 0
3	13	Y1313 +	Y2313 +	Z1313 -	H313	= 0
4	13	Y1413 +	Y2413 +	Z1413 -	H413	= 0
1	14	Y1114 +	Y2114 +	Z1114 -	H114	= 0
2	14	Y1214 +	Y2214 +	Z1214 -	H214	= 0
3	14	Y1314 +	Y2314 +	Z1314 -	H314	= 0
4	14	Y1414 +	Y2414 +	Z1414 -	H414	= 0
1	15	Y1115 +	Y2115 +	Z1115 -	H115	= 0
2	15	Y1215 +	Y2215 +	Z1215 -	H215	= 0
3	15	Y1315 +	Y2315 +	Z1315 -	H315	= 0
4	15	Y1415 +	Y2415 +	Z1415 -	H415	= 0
1	16	Y1116 +	Y2116 +	Z1116 -	H116	= 0
2	16	Y1216 +	Y2216 +	Z1216 -	H216	= 0
3	16	Y1316 +	Y2316 +	Z1316 -	H316	= 0
4	16	Y1416 +	Y2416 +	Z1416 -	H416	= 0
1	17	Y1117 +	Y2117 +	Z1117 -	H117	= 0
2	17	Y1217 +	Y2217 +	Z1217 -	H217	= 0
3	17	Y1317 +	Y2317 +	Z1317 -	H317	= 0
4	17	Y1417 +	Y2417 +	Z1417 -	H417	= 0
1	18	Y1118 +	Y2118 +	Z1118 -	H118	= 0
2	18	Y1218 +	Y2218 +	Z1218 -	H218	= 0
3	18	Y1318 +	Y2318 +	Z1318 -	H318	= 0
4	18	Y1418 +	Y2418 +	Z1418 -	H418	= 0
1	19	Y1119 +	Y2119 +	Z1119 -	H119	= 0
2	19	Y1219 +	Y2219 +	Z1219 -	H219	= 0
3	19	Y1319 +	Y2319 +	Z1319 -	H319	= 0
4	19	Y1419 +	Y2419 +	Z1419 -	H419	= 0
1	20	Y1120 +	Y2120 +	Z1120 -	H120	= 0
2	20	Y1220 +	Y2220 +	Z1220 -	H220	= 0
3	20	Y1320 +	Y2320 +	Z1320 -	H320	= 0
4	20	Y1420 +	Y2420 +	Z1420 -	H420	= 0
1	21	Y1121 +	Y2121 +	Z1121 -	H121	= 0
2	21	Y1221 +	Y2221 +	Z1221 -	H221	= 0
3	21	Y1321 +	Y2321 +	Z1321 -	H321	= 0
4	21	Y1421 +	Y2421 +	Z1421 -	H421	= 0
1	22	Y1122 +	Y2122 +	Z1122 -	H122	= 0
2	22	Y1222 +	Y2222 +	Z1222 -	H222	= 0
3	22	Y1322 +	Y2322 +	Z1322 -	H322	= 0
4	22	Y1422 +	Y2422 +	Z1422 -	H422	= 0
1	23	Y1123 +	Y2123 +	Z1123 -	H123	= 0
2	23	Y1223 +	Y2223 +	Z1223 -	H223	= 0
3	23	Y1323 +	Y2323 +	Z1323 -	H323	= 0
4	23	Y1423 +	Y2423 +	Z1423 -	H423	= 0
1	24	Y1124 +	Y2124 +	Z1124 -	H124	= 0
2	24	Y1224 +	Y2224 +	Z1224 -	H224	= 0
3	24	Y1324 +	Y2324 +	Z1324 -	H324	= 0
4	24	Y1424 +	Y2424 +	Z1424 -	H424	= 0
1	25	Y1125 +	Y2125 +	Z1125 -	H125	= 0
2	25	Y1225 +	Y2225 +	Z1225 -	H225	= 0
3	25	Y1325 +	Y2325 +	Z1325 -	H325	= 0
4	25	Y1425 +	Y2425 +	Z1425 -	H425	= 0
1	26	Y1126 +	Y2126 +	Z1126 -	H126	= 0
2	26	Y1226 +	Y2226 +	Z1226 -	H226	= 0
3	26	Y1326 +	Y2326 +	Z1326 -	H326	= 0
4	26	Y1426 +	Y2426 +	Z1426 -	H426	= 0
1	27	Y1127 +	Y2127 +	Z1127 -	H127	= 0
2	27	Y1227 +	Y2227 +	Z1227 -	H227	= 0
3	27	Y1327 +	Y2327 +	Z1327 -	H327	= 0
4	27	Y1427 +	Y2427 +	Z1427 -	H427	= 0
1	28	Y1128 +	Y2128 +	Z1128 -	H128	= 0
2	28	Y1228 +	Y2228 +	Z1228 -	H228	= 0
3	28	Y1328 +	Y2328 +	Z1328 -	H328	= 0
4	28	Y1428 +	Y2428 +	Z1428 -	H428	= 0
1	29	Y1129 +	Y2129 +	Z1129 -	H129	= 0
2	29	Y1229 +	Y2229 +	Z1229 -	H229	= 0
3	29	Y1329 +	Y2329 +	Z1329 -	H329	= 0
4	29	Y1429 +	Y2429 +	Z1429 -	H429	= 0
1	30	Y1130 +	Y2130 +	Z1130 -	H130	= 0
2	30	Y1230 +	Y2230 +	Z1230 -	H230	= 0
3	30	Y1330 +	Y2330 +	Z1330 -	H330	= 0
4	30	Y1430 +	Y2430 +	Z1430 -	H430	= 0

RESTRICCIONES PARA EL EMPLEO DE LOS INGREDIENTES DEL TIPO 1 (para X1,j,k y X2,j,k)

Lote	Día	X	
		1	2
1	1	X111 - rH11 > 0	X211 - rH11 > 0
2	1	X121 - rH21 > 0	X221 - rH21 > 0
3	1	X131 - rH31 > 0	X231 - rH31 > 0
4	1	X141 - rH41 > 0	X241 - rH41 > 0
1	2	X112 - rH12 > 0	X212 - rH12 > 0
2	2	X122 - rH22 > 0	X222 - rH22 > 0
3	2	X132 - rH32 > 0	X232 - rH32 > 0
4	2	X142 - rH42 > 0	X242 - rH42 > 0
1	3	X113 - rH13 > 0	X213 - rH13 > 0
2	3	X123 - rH23 > 0	X223 - rH23 > 0
3	3	X133 - rH33 > 0	X233 - rH33 > 0
4	3	X143 - rH43 > 0	X243 - rH43 > 0
1	4	X114 - rH14 > 0	X214 - rH14 > 0
2	4	X124 - rH24 > 0	X224 - rH24 > 0
3	4	X134 - rH34 > 0	X234 - rH34 > 0
4	4	X144 - rH44 > 0	X244 - rH44 > 0
1	5	X115 - rH15 > 0	X215 - rH15 > 0
2	5	X125 - rH25 > 0	X225 - rH25 > 0
3	5	X135 - rH35 > 0	X235 - rH35 > 0
4	5	X145 - rH45 > 0	X245 - rH45 > 0
1	6	X116 - rH16 > 0	X216 - rH16 > 0
2	6	X126 - rH26 > 0	X226 - rH26 > 0
3	6	X136 - rH36 > 0	X236 - rH36 > 0
4	6	X146 - rH46 > 0	X246 - rH46 > 0
1	7	X117 - rH17 > 0	X217 - rH17 > 0
2	7	X127 - rH27 > 0	X227 - rH27 > 0
3	7	X137 - rH37 > 0	X237 - rH37 > 0
4	7	X147 - rH47 > 0	X247 - rH47 > 0
1	8	X118 - rH18 > 0	X218 - rH18 > 0
2	8	X128 - rH28 > 0	X228 - rH28 > 0
3	8	X138 - rH38 > 0	X238 - rH38 > 0
4	8	X148 - rH48 > 0	X248 - rH48 > 0
1	9	X119 - rH19 > 0	X219 - rH19 > 0
2	9	X129 - rH29 > 0	X229 - rH29 > 0
3	9	X139 - rH39 > 0	X239 - rH39 > 0
4	9	X149 - rH49 > 0	X249 - rH49 > 0
1	10	X110 - rH10 > 0	X210 - rH10 > 0
2	10	X120 - rH20 > 0	X220 - rH20 > 0
3	10	X130 - rH30 > 0	X230 - rH30 > 0
4	10	X140 - rH40 > 0	X240 - rH40 > 0
1	11	X111 - rH11 > 0	X211 - rH11 > 0
2	11	X121 - rH21 > 0	X221 - rH21 > 0
3	11	X131 - rH31 > 0	X231 - rH31 > 0
4	11	X141 - rH41 > 0	X241 - rH41 > 0
1	12	X112 - rH12 > 0	X212 - rH12 > 0
2	12	X122 - rH22 > 0	X222 - rH22 > 0
3	12	X132 - rH32 > 0	X232 - rH32 > 0
4	12	X142 - rH42 > 0	X242 - rH42 > 0
1	13	X113 - rH13 > 0	X213 - rH13 > 0
2	13	X123 - rH23 > 0	X223 - rH23 > 0
3	13	X133 - rH33 > 0	X233 - rH33 > 0
4	13	X143 - rH43 > 0	X243 - rH43 > 0
1	14	X114 - rH14 > 0	X214 - rH14 > 0
2	14	X124 - rH24 > 0	X224 - rH24 > 0
3	14	X134 - rH34 > 0	X234 - rH34 > 0
4	14	X144 - rH44 > 0	X244 - rH44 > 0
1	15	X115 - rH15 > 0	X215 - rH15 > 0
2	15	X125 - rH25 > 0	X225 - rH25 > 0
3	15	X135 - rH35 > 0	X235 - rH35 > 0
4	15	X145 - rH45 > 0	X245 - rH45 > 0
1	16	X116 - rH16 > 0	X216 - rH16 > 0
2	16	X126 - rH26 > 0	X226 - rH26 > 0
3	16	X136 - rH36 > 0	X236 - rH36 > 0
4	16	X146 - rH46 > 0	X246 - rH46 > 0
1	17	X117 - rH17 > 0	X217 - rH17 > 0
2	17	X127 - rH27 > 0	X227 - rH27 > 0
3	17	X137 - rH37 > 0	X237 - rH37 > 0
4	17	X147 - rH47 > 0	X247 - rH47 > 0
1	18	X118 - rH18 > 0	X218 - rH18 > 0
2	18	X128 - rH28 > 0	X228 - rH28 > 0
3	18	X138 - rH38 > 0	X238 - rH38 > 0
4	18	X148 - rH48 > 0	X248 - rH48 > 0
1	19	X119 - rH19 > 0	X219 - rH19 > 0
2	19	X129 - rH29 > 0	X229 - rH29 > 0
3	19	X139 - rH39 > 0	X239 - rH39 > 0
4	19	X149 - rH49 > 0	X249 - rH49 > 0
1	20	X120 - rH20 > 0	X220 - rH20 > 0
2	20	X120 - rH20 > 0	X220 - rH20 > 0
3	20	X130 - rH30 > 0	X230 - rH30 > 0
4	20	X140 - rH40 > 0	X240 - rH40 > 0
1	21	X121 - rH21 > 0	X221 - rH21 > 0
2	21	X121 - rH21 > 0	X221 - rH21 > 0
3	21	X1321 - rH321 > 0	X2321 - rH321 > 0
4	21	X1421 - rH421 > 0	X2421 - rH421 > 0
1	22	X122 - rH22 > 0	X222 - rH22 > 0
2	22	X122 - rH22 > 0	X222 - rH22 > 0
3	22	X1322 - rH322 > 0	X2322 - rH322 > 0
4	22	X1422 - rH422 > 0	X2422 - rH422 > 0
1	23	X123 - rH23 > 0	X223 - rH23 > 0
2	23	X123 - rH23 > 0	X223 - rH23 > 0
3	23	X1323 - rH323 > 0	X2323 - rH323 > 0
4	23	X1423 - rH423 > 0	X2423 - rH423 > 0
1	24	X124 - rH24 > 0	X224 - rH24 > 0
2	24	X124 - rH24 > 0	X224 - rH24 > 0
3	24	X1324 - rH324 > 0	X2324 - rH324 > 0
4	24	X1424 - rH424 > 0	X2424 - rH424 > 0
1	25	X125 - rH25 > 0	X225 - rH25 > 0
2	25	X125 - rH25 > 0	X225 - rH25 > 0
3	25	X1325 - rH325 > 0	X2325 - rH325 > 0
4	25	X1425 - rH425 > 0	X2425 - rH425 > 0
1	26	X126 - rH26 > 0	X226 - rH26 > 0
2	26	X126 - rH26 > 0	X226 - rH26 > 0
3	26	X1326 - rH326 > 0	X2326 - rH326 > 0
4	26	X1426 - rH426 > 0	X2426 - rH426 > 0
1	27	X127 - rH27 > 0	X227 - rH27 > 0
2	27	X127 - rH27 > 0	X227 - rH27 > 0
3	27	X1327 - rH327 > 0	X2327 - rH327 > 0
4	27	X1427 - rH427 > 0	X2427 - rH427 > 0
1	28	X128 - rH28 > 0	X228 - rH28 > 0
2	28	X128 - rH28 > 0	X228 - rH28 > 0
3	28	X1328 - rH328 > 0	X2328 - rH328 > 0
4	28	X1428 - rH428 > 0	X2428 - rH428 > 0
1	29	X129 - rH29 > 0	X229 - rH29 > 0
2	29	X129 - rH29 > 0	X229 - rH29 > 0
3	29	X1329 - rH329 > 0	X2329 - rH329 > 0
4	29	X1429 - rH429 > 0	X2429 - rH429 > 0
1	30	X130 - rH30 > 0	X230 - rH30 > 0
2	30	X130 - rH30 > 0	X230 - rH30 > 0
3	30	X1330 - rH330 > 0	X2330 - rH330 > 0
4	30	X1430 - rH430 > 0	X2430 - rH430 > 0

RESTRICCIONES PARA EL EMPLEO DE LOS INGREDIENTES DEL TIPO 1 (para X3,j,k y X4,j,k)

Lote	Día	X	
		3	4
1	1	X311 - s3N11 > 0	X411 - s4N11 > 0
2	1	X321 - s3N21 > 0	X421 - s4N21 > 0
3	1	X331 - s3N31 > 0	X431 - s4N31 > 0
4	1	X341 - s3N41 > 0	X441 - s4N41 > 0
1	2	X312 - s3N12 > 0	X412 - s4N12 > 0
2	2	X322 - s3N22 > 0	X422 - s4N22 > 0
3	2	X332 - s3N32 > 0	X432 - s4N32 > 0
4	2	X342 - s3N42 > 0	X442 - s4N42 > 0
1	3	X313 - s3N13 > 0	X413 - s4N13 > 0
2	3	X323 - s3N23 > 0	X423 - s4N23 > 0
3	3	X333 - s3N33 > 0	X433 - s4N33 > 0
4	3	X343 - s3N43 > 0	X443 - s4N43 > 0
1	4	X314 - s3N14 > 0	X414 - s4N14 > 0
2	4	X324 - s3N24 > 0	X424 - s4N24 > 0
3	4	X334 - s3N34 > 0	X434 - s4N34 > 0
4	4	X344 - s3N44 > 0	X444 - s4N44 > 0
1	5	X315 - s3N15 > 0	X415 - s4N15 > 0
2	5	X325 - s3N25 > 0	X425 - s4N25 > 0
3	5	X335 - s3N35 > 0	X435 - s4N35 > 0
4	5	X345 - s3N45 > 0	X445 - s4N45 > 0
1	6	X316 - s3N16 > 0	X416 - s4N16 > 0
2	6	X326 - s3N26 > 0	X426 - s4N26 > 0
3	6	X336 - s3N36 > 0	X436 - s4N36 > 0
4	6	X346 - s3N46 > 0	X446 - s4N46 > 0
1	7	X317 - s3N17 > 0	X417 - s4N17 > 0
2	7	X327 - s3N27 > 0	X427 - s4N27 > 0
3	7	X337 - s3N37 > 0	X437 - s4N37 > 0
4	7	X347 - s3N47 > 0	X447 - s4N47 > 0
1	8	X318 - s3N18 > 0	X418 - s4N18 > 0
2	8	X328 - s3N28 > 0	X428 - s4N28 > 0
3	8	X338 - s3N38 > 0	X438 - s4N38 > 0
4	8	X348 - s3N48 > 0	X448 - s4N48 > 0
1	9	X319 - s3N19 > 0	X419 - s4N19 > 0
2	9	X329 - s3N29 > 0	X429 - s4N29 > 0
3	9	X339 - s3N39 > 0	X439 - s4N39 > 0
4	9	X349 - s3N49 > 0	X449 - s4N49 > 0
1	10	X3110 - s3N110 > 0	X4110 - s4N110 > 0
2	10	X3210 - s3N210 > 0	X4210 - s4N210 > 0
3	10	X3310 - s3N310 > 0	X4310 - s4N310 > 0
4	10	X3410 - s3N410 > 0	X4410 - s4N410 > 0
1	11	X3111 - s3N111 > 0	X4111 - s4N111 > 0
2	11	X3211 - s3N211 > 0	X4211 - s4N211 > 0
3	11	X3311 - s3N311 > 0	X4311 - s4N311 > 0
4	11	X3411 - s3N411 > 0	X4411 - s4N411 > 0
1	12	X3112 - s3N112 > 0	X4112 - s4N112 > 0
2	12	X3212 - s3N212 > 0	X4212 - s4N212 > 0
3	12	X3312 - s3N312 > 0	X4312 - s4N312 > 0
4	12	X3412 - s3N412 > 0	X4412 - s4N412 > 0
1	13	X3113 - s3N113 > 0	X4113 - s4N113 > 0
2	13	X3213 - s3N213 > 0	X4213 - s4N213 > 0
3	13	X3313 - s3N313 > 0	X4313 - s4N313 > 0
4	13	X3413 - s3N413 > 0	X4413 - s4N413 > 0
1	14	X3114 - s3N114 > 0	X4114 - s4N114 > 0
2	14	X3214 - s3N214 > 0	X4214 - s4N214 > 0
3	14	X3314 - s3N314 > 0	X4314 - s4N314 > 0
4	14	X3414 - s3N414 > 0	X4414 - s4N414 > 0
1	15	X3115 - s3N115 > 0	X4115 - s4N115 > 0
2	15	X3215 - s3N215 > 0	X4215 - s4N215 > 0
3	15	X3315 - s3N315 > 0	X4315 - s4N315 > 0
4	15	X3415 - s3N415 > 0	X4415 - s4N415 > 0
1	16	X3116 - s3N116 > 0	X4116 - s4N116 > 0
2	16	X3216 - s3N216 > 0	X4216 - s4N216 > 0
3	16	X3316 - s3N316 > 0	X4316 - s4N316 > 0
4	16	X3416 - s3N416 > 0	X4416 - s4N416 > 0
1	17	X3117 - s3N117 > 0	X4117 - s4N117 > 0
2	17	X3217 - s3N217 > 0	X4217 - s4N217 > 0
3	17	X3317 - s3N317 > 0	X4317 - s4N317 > 0
4	17	X3417 - s3N417 > 0	X4417 - s4N417 > 0
1	18	X3118 - s3N118 > 0	X4118 - s4N118 > 0
2	18	X3218 - s3N218 > 0	X4218 - s4N218 > 0
3	18	X3318 - s3N318 > 0	X4318 - s4N318 > 0
4	18	X3418 - s3N418 > 0	X4418 - s4N418 > 0
1	19	X3119 - s3N119 > 0	X4119 - s4N119 > 0
2	19	X3219 - s3N219 > 0	X4219 - s4N219 > 0
3	19	X3319 - s3N319 > 0	X4319 - s4N319 > 0
4	19	X3419 - s3N419 > 0	X4419 - s4N419 > 0
1	20	X3120 - s3N120 > 0	X4120 - s4N120 > 0
2	20	X3220 - s3N220 > 0	X4220 - s4N220 > 0
3	20	X3320 - s3N320 > 0	X4320 - s4N320 > 0
4	20	X3420 - s3N420 > 0	X4420 - s4N420 > 0
1	21	X3121 - s3N121 > 0	X4121 - s4N121 > 0
2	21	X3221 - s3N221 > 0	X4221 - s4N221 > 0
3	21	X3321 - s3N321 > 0	X4321 - s4N321 > 0
4	21	X3421 - s3N421 > 0	X4421 - s4N421 > 0
1	22	X3122 - s3N122 > 0	X4122 - s4N122 > 0
2	22	X3222 - s3N222 > 0	X4222 - s4N222 > 0
3	22	X3322 - s3N322 > 0	X4322 - s4N322 > 0
4	22	X3422 - s3N422 > 0	X4422 - s4N422 > 0
1	23	X3123 - s3N123 > 0	X4123 - s4N123 > 0
2	23	X3223 - s3N223 > 0	X4223 - s4N223 > 0
3	23	X3323 - s3N323 > 0	X4323 - s4N323 > 0
4	23	X3423 - s3N423 > 0	X4423 - s4N423 > 0
1	24	X3124 - s3N124 > 0	X4124 - s4N124 > 0
2	24	X3224 - s3N224 > 0	X4224 - s4N224 > 0
3	24	X3324 - s3N324 > 0	X4324 - s4N324 > 0
4	24	X3424 - s3N424 > 0	X4424 - s4N424 > 0
1	25	X3125 - s3N125 > 0	X4125 - s4N125 > 0
2	25	X3225 - s3N225 > 0	X4225 - s4N225 > 0
3	25	X3325 - s3N325 > 0	X4325 - s4N325 > 0
4	25	X3425 - s3N425 > 0	X4425 - s4N425 > 0
1	26	X3126 - s3N126 > 0	X4126 - s4N126 > 0
2	26	X3226 - s3N226 > 0	X4226 - s4N226 > 0
3	26	X3326 - s3N326 > 0	X4326 - s4N326 > 0
4	26	X3426 - s3N426 > 0	X4426 - s4N426 > 0
1	27	X3127 - s3N127 > 0	X4127 - s4N127 > 0
2	27	X3227 - s3N227 > 0	X4227 - s4N227 > 0
3	27	X3327 - s3N327 > 0	X4327 - s4N327 > 0
4	27	X3427 - s3N427 > 0	X4427 - s4N427 > 0
1	28	X3128 - s3N128 > 0	X4128 - s4N128 > 0
2	28	X3228 - s3N228 > 0	X4228 - s4N228 > 0
3	28	X3328 - s3N328 > 0	X4328 - s4N328 > 0
4	28	X3428 - s3N428 > 0	X4428 - s4N428 > 0
1	29	X3129 - s3N129 > 0	X4129 - s4N129 > 0
2	29	X3229 - s3N229 > 0	X4229 - s4N229 > 0
3	29	X3329 - s3N329 > 0	X4329 - s4N329 > 0
4	29	X3429 - s3N429 > 0	X4429 - s4N429 > 0
1	30	X3130 - s3N130 > 0	X4130 - s4N130 > 0
2	30	X3230 - s3N230 > 0	X4230 - s4N230 > 0
3	30	X3330 - s3N330 > 0	X4330 - s4N330 > 0
4	30	X3430 - s3N430 > 0	X4430 - s4N430 > 0



RESTRICCIONES PARA EL EMPLEO DE LOS INGREDIENTES DEL TIPO 1 (relación entre X1,j,k y X2,j,k)

Lote	Día			X			
		1	2	1	2		
1	1	pf	pr	px111 -	px211	>	0
2	1	pf	pr	px121 -	px221	>	0
3	1	pf	pr	px131 -	px231	>	0
4	1	pf	pr	px141 -	px241	>	0
1	2	pf	pr	px112 -	px212	>	0
2	2	pf	pr	px122 -	px222	>	0
3	2	pf	pr	px132 -	px232	>	0
4	2	pf	pr	px142 -	px242	>	0
1	3	pf	pr	px113 -	px213	>	0
2	3	pf	pr	px123 -	px223	>	0
3	3	pf	pr	px133 -	px233	>	0
4	3	pf	pr	px143 -	px243	>	0
1	4	pf	pr	px114 -	px214	>	0
2	4	pf	pr	px124 -	px224	>	0
3	4	pf	pr	px134 -	px234	>	0
4	4	pf	pr	px144 -	px244	>	0
1	5	pf	pr	px115 -	px215	>	0
2	5	pf	pr	px125 -	px225	>	0
3	5	pf	pr	px135 -	px235	>	0
4	5	pf	pr	px145 -	px245	>	0
1	6	pf	pr	px116 -	px216	>	0
2	6	pf	pr	px126 -	px226	>	0
3	6	pf	pr	px136 -	px236	>	0
4	6	pf	pr	px146 -	px246	>	0
1	7	pf	pr	px117 -	px217	>	0
2	7	pf	pr	px127 -	px227	>	0
3	7	pf	pr	px137 -	px237	>	0
4	7	pf	pr	px147 -	px247	>	0
1	8	pf	pr	px118 -	px218	>	0
2	8	pf	pr	px128 -	px228	>	0
3	8	pf	pr	px138 -	px238	>	0
4	8	pf	pr	px148 -	px248	>	0
1	9	pf	pr	px119 -	px219	>	0
2	9	pf	pr	px129 -	px229	>	0
3	9	pf	pr	px139 -	px239	>	0
4	9	pf	pr	px149 -	px249	>	0
1	10	pf	pr	px1110 -	px2110	>	0
2	10	pf	pr	px1210 -	px2210	>	0
3	10	pf	pr	px1310 -	px2310	>	0
4	10	pf	pr	px1410 -	px2410	>	0
1	11	pf	pr	px1111 -	px2111	>	0
2	11	pf	pr	px1211 -	px2211	>	0
3	11	pf	pr	px1311 -	px2311	>	0
4	11	pf	pr	px1411 -	px2411	>	0
1	12	pf	pr	px1112 -	px2112	>	0
2	12	pf	pr	px1212 -	px2212	>	0
3	12	pf	pr	px1312 -	px2312	>	0
4	12	pf	pr	px1412 -	px2412	>	0
1	13	pf	pr	px1113 -	px2113	>	0
2	13	pf	pr	px1213 -	px2213	>	0
3	13	pf	pr	px1313 -	px2313	>	0
4	13	pf	pr	px1413 -	px2413	>	0
1	14	pf	pr	px1114 -	px2114	>	0
2	14	pf	pr	px1214 -	px2214	>	0
3	14	pf	pr	px1314 -	px2314	>	0
4	14	pf	pr	px1414 -	px2414	>	0
1	15	pf	pr	px1115 -	px2115	>	0
2	15	pf	pr	px1215 -	px2215	>	0
3	15	pf	pr	px1315 -	px2315	>	0
4	15	pf	pr	px1415 -	px2415	>	0
1	16	pf	pr	px1116 -	px2116	>	0
2	16	pf	pr	px1216 -	px2216	>	0
3	16	pf	pr	px1316 -	px2316	>	0
4	16	pf	pr	px1416 -	px2416	>	0
1	17	pf	pr	px1117 -	px2117	>	0
2	17	pf	pr	px1217 -	px2217	>	0
3	17	pf	pr	px1317 -	px2317	>	0
4	17	pf	pr	px1417 -	px2417	>	0
1	18	pf	pr	px1118 -	px2118	>	0
2	18	pf	pr	px1218 -	px2218	>	0
3	18	pf	pr	px1318 -	px2318	>	0
4	18	pf	pr	px1418 -	px2418	>	0
1	19	pf	pr	px1119 -	px2119	>	0
2	19	pf	pr	px1219 -	px2219	>	0
3	19	pf	pr	px1319 -	px2319	>	0
4	19	pf	pr	px1419 -	px2419	>	0
1	20	pf	pr	px1120 -	px2120	>	0
2	20	pf	pr	px1220 -	px2220	>	0
3	20	pf	pr	px1320 -	px2320	>	0
4	20	pf	pr	px1420 -	px2420	>	0
1	21	pf	pr	px1121 -	px2121	>	0
2	21	pf	pr	px1221 -	px2221	>	0
3	21	pf	pr	px1321 -	px2321	>	0
4	21	pf	pr	px1421 -	px2421	>	0
1	22	pf	pr	px1122 -	px2122	>	0
2	22	pf	pr	px1222 -	px2222	>	0
3	22	pf	pr	px1322 -	px2322	>	0
4	22	pf	pr	px1422 -	px2422	>	0
1	23	pf	pr	px1123 -	px2123	>	0
2	23	pf	pr	px1223 -	px2223	>	0
3	23	pf	pr	px1323 -	px2323	>	0
4	23	pf	pr	px1423 -	px2423	>	0
1	24	pf	pr	px1124 -	px2124	>	0
2	24	pf	pr	px1224 -	px2224	>	0
3	24	pf	pr	px1324 -	px2324	>	0
4	24	pf	pr	px1424 -	px2424	>	0
1	25	pf	pr	px1125 -	px2125	>	0
2	25	pf	pr	px1225 -	px2225	>	0
3	25	pf	pr	px1325 -	px2325	>	0
4	25	pf	pr	px1425 -	px2425	>	0
1	26	pf	pr	px1126 -	px2126	>	0
2	26	pf	pr	px1226 -	px2226	>	0
3	26	pf	pr	px1326 -	px2326	>	0
4	26	pf	pr	px1426 -	px2426	>	0
1	27	pf	pr	px1127 -	px2127	>	0
2	27	pf	pr	px1227 -	px2227	>	0
3	27	pf	pr	px1327 -	px2327	>	0
4	27	pf	pr	px1427 -	px2427	>	0
1	28	pf	pr	px1128 -	px2128	>	0
2	28	pf	pr	px1228 -	px2228	>	0
3	28	pf	pr	px1328 -	px2328	>	0
4	28	pf	pr	px1428 -	px2428	>	0
1	29	pf	pr	px1129 -	px2129	>	0
2	29	pf	pr	px1229 -	px2229	>	0
3	29	pf	pr	px1329 -	px2329	>	0
4	29	pf	pr	px1429 -	px2429	>	0
1	30	pf	pr	px1130 -	px2130	>	0
2	30	pf	pr	px1230 -	px2230	>	0
3	30	pf	pr	px1330 -	px2330	>	0
4	30	pf	pr	px1430 -	px2430	>	0

RESTRICCIONES PARA EL EMPLEO DE LOS COMBUSTIBLES

Lote	Día	Y		
		1	2	3
1	1	V111 - FN11 > 0	V211 - FN11 > 0	V311 - FN11 > 0
2	1	V121 - FN21 > 0	V221 - FN21 > 0	V321 - FN21 > 0
3	1	V131 - FN31 > 0	V231 - FN31 > 0	V331 - FN31 > 0
4	1	V141 - FN41 > 0	V241 - FN41 > 0	V341 - FN41 > 0
1	2	V112 - FN12 > 0	V212 - FN12 > 0	V312 - FN12 > 0
2	2	V122 - FN22 > 0	V222 - FN22 > 0	V322 - FN22 > 0
3	2	V132 - FN32 > 0	V232 - FN32 > 0	V332 - FN32 > 0
4	2	V142 - FN42 > 0	V242 - FN42 > 0	V342 - FN42 > 0
1	3	V113 - FN13 > 0	V213 - FN13 > 0	V313 - FN13 > 0
2	3	V123 - FN23 > 0	V223 - FN23 > 0	V323 - FN23 > 0
3	3	V133 - FN33 > 0	V233 - FN33 > 0	V333 - FN33 > 0
4	3	V143 - FN43 > 0	V243 - FN43 > 0	V343 - FN43 > 0
1	4	V114 - FN14 > 0	V214 - FN14 > 0	V314 - FN14 > 0
2	4	V124 - FN24 > 0	V224 - FN24 > 0	V324 - FN24 > 0
3	4	V134 - FN34 > 0	V234 - FN34 > 0	V334 - FN34 > 0
4	4	V144 - FN44 > 0	V244 - FN44 > 0	V344 - FN44 > 0
1	5	V115 - FN15 > 0	V215 - FN15 > 0	V315 - FN15 > 0
2	5	V125 - FN25 > 0	V225 - FN25 > 0	V325 - FN25 > 0
3	5	V135 - FN35 > 0	V235 - FN35 > 0	V335 - FN35 > 0
4	5	V145 - FN45 > 0	V245 - FN45 > 0	V345 - FN45 > 0
1	6	V116 - FN16 > 0	V216 - FN16 > 0	V316 - FN16 > 0
2	6	V126 - FN26 > 0	V226 - FN26 > 0	V326 - FN26 > 0
3	6	V136 - FN36 > 0	V236 - FN36 > 0	V336 - FN36 > 0
4	6	V146 - FN46 > 0	V246 - FN46 > 0	V346 - FN46 > 0
1	7	V117 - FN17 > 0	V217 - FN17 > 0	V317 - FN17 > 0
2	7	V127 - FN27 > 0	V227 - FN27 > 0	V327 - FN27 > 0
3	7	V137 - FN37 > 0	V237 - FN37 > 0	V337 - FN37 > 0
4	7	V147 - FN47 > 0	V247 - FN47 > 0	V347 - FN47 > 0
1	8	V118 - FN18 > 0	V218 - FN18 > 0	V318 - FN18 > 0
2	8	V128 - FN28 > 0	V228 - FN28 > 0	V328 - FN28 > 0
3	8	V138 - FN38 > 0	V238 - FN38 > 0	V338 - FN38 > 0
4	8	V148 - FN48 > 0	V248 - FN48 > 0	V348 - FN48 > 0
1	9	V119 - FN19 > 0	V219 - FN19 > 0	V319 - FN19 > 0
2	9	V129 - FN29 > 0	V229 - FN29 > 0	V329 - FN29 > 0
3	9	V139 - FN39 > 0	V239 - FN39 > 0	V339 - FN39 > 0
4	9	V149 - FN49 > 0	V249 - FN49 > 0	V349 - FN49 > 0
1	10	V110 - FN110 > 0	V210 - FN110 > 0	V310 - FN110 > 0
2	10	V120 - FN210 > 0	V220 - FN210 > 0	V320 - FN210 > 0
3	10	V130 - FN310 > 0	V230 - FN310 > 0	V330 - FN310 > 0
4	10	V140 - FN410 > 0	V240 - FN410 > 0	V340 - FN410 > 0
1	11	V111 - FN111 > 0	V211 - FN111 > 0	V311 - FN111 > 0
2	11	V121 - FN211 > 0	V221 - FN211 > 0	V321 - FN211 > 0
3	11	V131 - FN311 > 0	V231 - FN311 > 0	V331 - FN311 > 0
4	11	V141 - FN411 > 0	V241 - FN411 > 0	V341 - FN411 > 0
1	12	V112 - FN112 > 0	V212 - FN112 > 0	V312 - FN112 > 0
2	12	V122 - FN212 > 0	V222 - FN212 > 0	V322 - FN212 > 0
3	12	V132 - FN312 > 0	V232 - FN312 > 0	V332 - FN312 > 0
4	12	V142 - FN412 > 0	V242 - FN412 > 0	V342 - FN412 > 0
1	13	V113 - FN113 > 0	V213 - FN113 > 0	V313 - FN113 > 0
2	13	V123 - FN213 > 0	V223 - FN213 > 0	V323 - FN213 > 0
3	13	V133 - FN313 > 0	V233 - FN313 > 0	V333 - FN313 > 0
4	13	V143 - FN413 > 0	V243 - FN413 > 0	V343 - FN413 > 0
1	14	V114 - FN114 > 0	V214 - FN114 > 0	V314 - FN114 > 0
2	14	V124 - FN214 > 0	V224 - FN214 > 0	V324 - FN214 > 0
3	14	V134 - FN314 > 0	V234 - FN314 > 0	V334 - FN314 > 0
4	14	V144 - FN414 > 0	V244 - FN414 > 0	V344 - FN414 > 0
1	15	V115 - FN115 > 0	V215 - FN115 > 0	V315 - FN115 > 0
2	15	V125 - FN215 > 0	V225 - FN215 > 0	V325 - FN215 > 0
3	15	V135 - FN315 > 0	V235 - FN315 > 0	V335 - FN315 > 0
4	15	V145 - FN415 > 0	V245 - FN415 > 0	V345 - FN415 > 0
1	16	V116 - FN116 > 0	V216 - FN116 > 0	V316 - FN116 > 0
2	16	V126 - FN216 > 0	V226 - FN216 > 0	V326 - FN216 > 0
3	16	V136 - FN316 > 0	V236 - FN316 > 0	V336 - FN316 > 0
4	16	V146 - FN416 > 0	V246 - FN416 > 0	V346 - FN416 > 0
1	17	V117 - FN117 > 0	V217 - FN117 > 0	V317 - FN117 > 0
2	17	V127 - FN217 > 0	V227 - FN217 > 0	V327 - FN217 > 0
3	17	V137 - FN317 > 0	V237 - FN317 > 0	V337 - FN317 > 0
4	17	V147 - FN417 > 0	V247 - FN417 > 0	V347 - FN417 > 0
1	18	V118 - FN118 > 0	V218 - FN118 > 0	V318 - FN118 > 0
2	18	V128 - FN218 > 0	V228 - FN218 > 0	V328 - FN218 > 0
3	18	V138 - FN318 > 0	V238 - FN318 > 0	V338 - FN318 > 0
4	18	V148 - FN418 > 0	V248 - FN418 > 0	V348 - FN418 > 0
1	19	V119 - FN119 > 0	V219 - FN119 > 0	V319 - FN119 > 0
2	19	V129 - FN219 > 0	V229 - FN219 > 0	V329 - FN219 > 0
3	19	V139 - FN319 > 0	V239 - FN319 > 0	V339 - FN319 > 0
4	19	V149 - FN419 > 0	V249 - FN419 > 0	V349 - FN419 > 0
1	20	V120 - FN120 > 0	V220 - FN120 > 0	V320 - FN120 > 0
2	20	V120 - FN220 > 0	V220 - FN220 > 0	V320 - FN220 > 0
3	20	V130 - FN320 > 0	V230 - FN320 > 0	V330 - FN320 > 0
4	20	V140 - FN420 > 0	V240 - FN420 > 0	V340 - FN420 > 0
1	21	V121 - FN121 > 0	V221 - FN121 > 0	V321 - FN121 > 0
2	21	V121 - FN221 > 0	V221 - FN221 > 0	V321 - FN221 > 0
3	21	V131 - FN321 > 0	V231 - FN321 > 0	V331 - FN321 > 0
4	21	V141 - FN421 > 0	V241 - FN421 > 0	V341 - FN421 > 0
1	22	V122 - FN122 > 0	V222 - FN122 > 0	V322 - FN122 > 0
2	22	V122 - FN222 > 0	V222 - FN222 > 0	V322 - FN222 > 0
3	22	V132 - FN322 > 0	V232 - FN322 > 0	V332 - FN322 > 0
4	22	V142 - FN422 > 0	V242 - FN422 > 0	V342 - FN422 > 0
1	23	V123 - FN123 > 0	V223 - FN123 > 0	V323 - FN123 > 0
2	23	V123 - FN223 > 0	V223 - FN223 > 0	V323 - FN223 > 0
3	23	V133 - FN323 > 0	V233 - FN323 > 0	V333 - FN323 > 0
4	23	V143 - FN423 > 0	V243 - FN423 > 0	V343 - FN423 > 0
1	24	V124 - FN124 > 0	V224 - FN124 > 0	V324 - FN124 > 0
2	24	V124 - FN224 > 0	V224 - FN224 > 0	V324 - FN224 > 0
3	24	V134 - FN324 > 0	V234 - FN324 > 0	V334 - FN324 > 0
4	24	V144 - FN424 > 0	V244 - FN424 > 0	V344 - FN424 > 0
1	25	V125 - FN125 > 0	V225 - FN125 > 0	V325 - FN125 > 0
2	25	V125 - FN225 > 0	V225 - FN225 > 0	V325 - FN225 > 0
3	25	V135 - FN325 > 0	V235 - FN325 > 0	V335 - FN325 > 0
4	25	V145 - FN425 > 0	V245 - FN425 > 0	V345 - FN425 > 0
1	26	V126 - FN126 > 0	V226 - FN126 > 0	V326 - FN126 > 0
2	26	V126 - FN226 > 0	V226 - FN226 > 0	V326 - FN226 > 0
3	26	V136 - FN326 > 0	V236 - FN326 > 0	V336 - FN326 > 0
4	26	V146 - FN426 > 0	V246 - FN426 > 0	V346 - FN426 > 0
1	27	V127 - FN127 > 0	V227 - FN127 > 0	V327 - FN127 > 0
2	27	V127 - FN227 > 0	V227 - FN227 > 0	V327 - FN227 > 0
3	27	V137 - FN327 > 0	V237 - FN327 > 0	V337 - FN327 > 0
4	27	V147 - FN427 > 0	V247 - FN427 > 0	V347 - FN427 > 0
1	28	V128 - FN128 > 0	V228 - FN128 > 0	V328 - FN128 > 0
2	28	V128 - FN228 > 0	V228 - FN228 > 0	V328 - FN228 > 0
3	28	V138 - FN328 > 0	V238 - FN328 > 0	V338 - FN328 > 0
4	28	V148 - FN428 > 0	V248 - FN428 > 0	V348 - FN428 > 0
1	29	V129 - FN129 > 0	V229 - FN129 > 0	V329 - FN129 > 0
2	29	V129 - FN229 > 0	V229 - FN229 > 0	V329 - FN229 > 0
3	29	V139 - FN329 > 0	V239 - FN329 > 0	V339 - FN329 > 0
4	29	V149 - FN429 > 0	V249 - FN429 > 0	V349 - FN429 > 0
1	30	V130 - FN130 > 0	V230 - FN130 > 0	V330 - FN130 > 0
2	30	V130 - FN230 > 0	V230 - FN230 > 0	V330 - FN230 > 0
3	30	V130 - FN330 > 0	V230 - FN330 > 0	V330 - FN330 > 0
4	30	V1430 - FN430 > 0	V2430 - FN430 > 0	V3430 - FN430 > 0





FUNCION OBJETIVO

Table with 4 columns: COSTO DE X1, COSTO DE X2, COSTO DE X3, COSTO DE X4. Each column contains a list of 30 items with numerical values.

Table with 4 columns: COSTO DE Y1, COSTO DE Y2, COSTO DE Y3, COSTO DE Y4. Each column contains a list of 30 items with numerical values.

Table with 4 columns: COSTO DE Z1, COSTO DE Z2, COSTO DE Z3, COSTO DE Z4. Each column contains a list of 30 items with numerical values.

Table with 4 columns: COSTO DE V1, COSTO DE V2, COSTO DE V3, COSTO DE V4. Each column contains a list of 30 items with numerical values.

RESTRICCIONES DE CAPACIDAD

Table with columns: Lote, Día, X (1-4), Y (1-4), Z (1-4). Rows contain alphanumeric codes and numerical values.

RESTRICCIONES DE DISPONIBILIDAD PARA LOS INGREDIENTES DEL TIPO 1

Ingrediente	Día	Lote						
		1	2	3	4			
1	1	X111 +	X121 +	X131 +	X141	<	60	
2	1	X211 +	X221 +	X231 +	X241	<	24	
3	1	X311 +	X321 +	X331 +	X341	<	1	
4	1	X411 +	X421 +	X431 +	X441	<	70	
1	2	X112 +	X122 +	X132 +	X142	<	60	
2	2	X212 +	X222 +	X232 +	X242	<	24	
3	2	X312 +	X322 +	X332 +	X342	<	1	
4	2	X412 +	X422 +	X432 +	X442	<	70	
1	3	X113 +	X123 +	X133 +	X143	<	60	
2	3	X213 +	X223 +	X233 +	X243	<	24	
3	3	X313 +	X323 +	X333 +	X343	<	1	
4	3	X413 +	X423 +	X433 +	X443	<	70	
1	4	X114 +	X124 +	X134 +	X144	<	60	
2	4	X214 +	X224 +	X234 +	X244	<	24	
3	4	X314 +	X324 +	X334 +	X344	<	1	
4	4	X414 +	X424 +	X434 +	X444	<	70	
1	5	X115 +	X125 +	X135 +	X145	<	60	
2	5	X215 +	X225 +	X235 +	X245	<	24	
3	5	X315 +	X325 +	X335 +	X345	<	1	
4	5	X415 +	X425 +	X435 +	X445	<	70	
1	6	X116 +	X126 +	X136 +	X146	<	60	
2	6	X216 +	X226 +	X236 +	X246	<	24	
3	6	X316 +	X326 +	X336 +	X346	<	1	
4	6	X416 +	X426 +	X436 +	X446	<	70	
1	7	X117 +	X127 +	X137 +	X147	<	60	
2	7	X217 +	X227 +	X237 +	X247	<	24	
3	7	X317 +	X327 +	X337 +	X347	<	1	
4	7	X417 +	X427 +	X437 +	X447	<	70	
1	8	X118 +	X128 +	X138 +	X148	<	60	
2	8	X218 +	X228 +	X238 +	X248	<	24	
3	8	X318 +	X328 +	X338 +	X348	<	1	
4	8	X418 +	X428 +	X438 +	X448	<	70	
1	9	X119 +	X129 +	X139 +	X149	<	60	
2	9	X219 +	X229 +	X239 +	X249	<	24	
3	9	X319 +	X329 +	X339 +	X349	<	1	
4	9	X419 +	X429 +	X439 +	X449	<	70	
1	10	X110 +	X120 +	X130 +	X140	<	60	
2	10	X210 +	X220 +	X230 +	X240	<	24	
3	10	X310 +	X320 +	X330 +	X340	<	1	
4	10	X410 +	X420 +	X430 +	X440	<	70	
1	11	X111 +	X121 +	X131 +	X141	<	60	
2	11	X211 +	X221 +	X231 +	X241	<	24	
3	11	X311 +	X321 +	X331 +	X341	<	1	
4	11	X411 +	X421 +	X431 +	X441	<	70	
1	12	X112 +	X122 +	X132 +	X142	<	60	
2	12	X212 +	X222 +	X232 +	X242	<	24	
3	12	X312 +	X322 +	X332 +	X342	<	1	
4	12	X412 +	X422 +	X432 +	X442	<	70	
1	13	X113 +	X123 +	X133 +	X143	<	60	
2	13	X213 +	X223 +	X233 +	X243	<	24	
3	13	X313 +	X323 +	X333 +	X343	<	1	
4	13	X413 +	X423 +	X433 +	X443	<	70	
1	14	X114 +	X124 +	X134 +	X144	<	60	
2	14	X214 +	X224 +	X234 +	X244	<	24	
3	14	X314 +	X324 +	X334 +	X344	<	1	
4	14	X414 +	X424 +	X434 +	X444	<	70	
1	15	X115 +	X125 +	X135 +	X145	<	60	
2	15	X215 +	X225 +	X235 +	X245	<	24	
3	15	X315 +	X325 +	X335 +	X345	<	1	
4	15	X415 +	X425 +	X435 +	X445	<	70	
1	16	X116 +	X126 +	X136 +	X146	<	60	
2	16	X216 +	X226 +	X236 +	X246	<	24	
3	16	X316 +	X326 +	X336 +	X346	<	1	
4	16	X416 +	X426 +	X436 +	X446	<	70	
1	17	X117 +	X127 +	X137 +	X147	<	60	
2	17	X217 +	X227 +	X237 +	X247	<	24	
3	17	X317 +	X327 +	X337 +	X347	<	1	
4	17	X417 +	X427 +	X437 +	X447	<	70	
1	18	X118 +	X128 +	X138 +	X148	<	60	
2	18	X218 +	X228 +	X238 +	X248	<	24	
3	18	X318 +	X328 +	X338 +	X348	<	1	
4	18	X418 +	X428 +	X438 +	X448	<	70	
1	19	X119 +	X129 +	X139 +	X149	<	60	
2	19	X219 +	X229 +	X239 +	X249	<	24	
3	19	X319 +	X329 +	X339 +	X349	<	1	
4	19	X419 +	X429 +	X439 +	X449	<	70	
1	20	X120 +	X120 +	X1320 +	X1420	<	60	
2	20	X220 +	X220 +	X2320 +	X2420	<	24	
3	20	X320 +	X320 +	X3320 +	X3420	<	1	
4	20	X420 +	X420 +	X4320 +	X4420	<	70	
1	21	X121 +	X121 +	X1321 +	X1421	<	60	
2	21	X221 +	X221 +	X2321 +	X2421	<	24	
3	21	X321 +	X321 +	X3321 +	X3421	<	1	
4	21	X421 +	X421 +	X4321 +	X4421	<	70	
1	22	X122 +	X122 +	X1322 +	X1422	<	60	
2	22	X222 +	X222 +	X2322 +	X2422	<	24	
3	22	X322 +	X322 +	X3322 +	X3422	<	1	
4	22	X422 +	X422 +	X4322 +	X4422	<	70	
1	23	X123 +	X123 +	X1323 +	X1423	<	60	
2	23	X223 +	X223 +	X2323 +	X2423	<	24	
3	23	X323 +	X323 +	X3323 +	X3423	<	1	
4	23	X423 +	X423 +	X4323 +	X4423	<	70	
1	24	X124 +	X124 +	X1324 +	X1424	<	60	
2	24	X224 +	X224 +	X2324 +	X2424	<	24	
3	24	X324 +	X324 +	X3324 +	X3424	<	1	
4	24	X424 +	X424 +	X4324 +	X4424	<	70	
1	25	X125 +	X125 +	X1325 +	X1425	<	60	
2	25	X225 +	X225 +	X2325 +	X2425	<	24	
3	25	X325 +	X325 +	X3325 +	X3425	<	1	
4	25	X425 +	X425 +	X4325 +	X4425	<	70	
1	26	X126 +	X126 +	X1326 +	X1426	<	60	
2	26	X226 +	X226 +	X2326 +	X2426	<	24	
3	26	X326 +	X326 +	X3326 +	X3426	<	1	
4	26	X426 +	X426 +	X4326 +	X4426	<	70	
1	27	X127 +	X127 +	X1327 +	X1427	<	60	
2	27	X227 +	X227 +	X2327 +	X2427	<	24	
3	27	X327 +	X327 +	X3327 +	X3427	<	1	
4	27	X427 +	X427 +	X4327 +	X4427	<	70	
1	28	X128 +	X128 +	X1328 +	X1428	<	60	
2	28	X228 +	X228 +	X2328 +	X2428	<	24	
3	28	X328 +	X328 +	X3328 +	X3428	<	1	
4	28	X428 +	X428 +	X4328 +	X4428	<	70	
1	29	X129 +	X129 +	X1329 +	X1429	<	60	
2	29	X229 +	X229 +	X2329 +	X2429	<	24	
3	29	X329 +	X329 +	X3329 +	X3429	<	1	
4	29	X429 +	X429 +	X4329 +	X4429	<	70	
1	30	X130 +	X130 +	X1330 +	X1430	<	60	
2	30	X230 +	X230 +	X2330 +	X2430	<	24	
3	30	X330 +	X330 +	X3330 +	X3430	<	1	
4	30	X430 +	X430 +	X4330 +	X4430	<	70	

Nota
Introduciendo las disponibilidades diarias en el recuadro de la izquierda para el primer día, automáticamente se actualizarán las disponibilidades para todos los días.

RESTRICCIONES DE DISPONIBILIDAD PARA LOS INGREDIENTES DEL TIPO 2

Ingrediente	Día	Lote					
		1	2	3	4		
1	1	Y111 +	Y121 +	Y131 +	Y141	<	428
2	1	Y211 +	Y221 +	Y231 +	Y241	<	32
3	1	Y311 +	Y321 +	Y331 +	Y341	<	31
4	1	Y411 +	Y421 +	Y431 +	Y441	<	142
1	2	Y112 +	Y122 +	Y132 +	Y142	<	428
2	2	Y212 +	Y222 +	Y232 +	Y242	<	32
3	2	Y312 +	Y322 +	Y332 +	Y342	<	31
4	2	Y412 +	Y422 +	Y432 +	Y442	<	142
1	3	Y113 +	Y123 +	Y133 +	Y143	<	428
2	3	Y213 +	Y223 +	Y233 +	Y243	<	32
3	3	Y313 +	Y323 +	Y333 +	Y343	<	31
4	3	Y413 +	Y423 +	Y433 +	Y443	<	142
1	4	Y114 +	Y124 +	Y134 +	Y144	<	428
2	4	Y214 +	Y224 +	Y234 +	Y244	<	32
3	4	Y314 +	Y324 +	Y334 +	Y344	<	31
4	4	Y414 +	Y424 +	Y434 +	Y444	<	142
1	5	Y115 +	Y125 +	Y135 +	Y145	<	428
2	5	Y215 +	Y225 +	Y235 +	Y245	<	32
3	5	Y315 +	Y325 +	Y335 +	Y345	<	31
4	5	Y415 +	Y425 +	Y435 +	Y445	<	142
1	6	Y116 +	Y126 +	Y136 +	Y146	<	428
2	6	Y216 +	Y226 +	Y236 +	Y246	<	32
3	6	Y316 +	Y326 +	Y336 +	Y346	<	31
4	6	Y416 +	Y426 +	Y436 +	Y446	<	142
1	7	Y117 +	Y127 +	Y137 +	Y147	<	428
2	7	Y217 +	Y227 +	Y237 +	Y247	<	32
3	7	Y317 +	Y327 +	Y337 +	Y347	<	31
4	7	Y417 +	Y427 +	Y437 +	Y447	<	142
1	8	Y118 +	Y128 +	Y138 +	Y148	<	428
2	8	Y218 +	Y228 +	Y238 +	Y248	<	32
3	8	Y318 +	Y328 +	Y338 +	Y348	<	31
4	8	Y418 +	Y428 +	Y438 +	Y448	<	142
1	9	Y119 +	Y129 +	Y139 +	Y149	<	428
2	9	Y219 +	Y229 +	Y239 +	Y249	<	32
3	9	Y319 +	Y329 +	Y339 +	Y349	<	31
4	9	Y419 +	Y429 +	Y439 +	Y449	<	142
1	10	Y1110 +	Y1210 +	Y1310 +	Y1410	<	428
2	10	Y2110 +	Y2210 +	Y2310 +	Y2410	<	32
3	10	Y3110 +	Y3210 +	Y3310 +	Y3410	<	31
4	10	Y4110 +	Y4210 +	Y4310 +	Y4410	<	142
1	11	Y1111 +	Y1211 +	Y1311 +	Y1411	<	428
2	11	Y2111 +	Y2211 +	Y2311 +	Y2411	<	32
3	11	Y3111 +	Y3211 +	Y3311 +	Y3411	<	31
4	11	Y4111 +	Y4211 +	Y4311 +	Y4411	<	142
1	12	Y1112 +	Y1212 +	Y1312 +	Y1412	<	428
2	12	Y2112 +	Y2212 +	Y2312 +	Y2412	<	32
3	12	Y3112 +	Y3212 +	Y3312 +	Y3412	<	31
4	12	Y4112 +	Y4212 +	Y4312 +	Y4412	<	142
1	13	Y1113 +	Y1213 +	Y1313 +	Y1413	<	428
2	13	Y2113 +	Y2213 +	Y2313 +	Y2413	<	32
3	13	Y3113 +	Y3213 +	Y3313 +	Y3413	<	31
4	13	Y4113 +	Y4213 +	Y4313 +	Y4413	<	142
1	14	Y1114 +	Y1214 +	Y1314 +	Y1414	<	428
2	14	Y2114 +	Y2214 +	Y2314 +	Y2414	<	32
3	14	Y3114 +	Y3214 +	Y3314 +	Y3414	<	31
4	14	Y4114 +	Y4214 +	Y4314 +	Y4414	<	142
1	15	Y1115 +	Y1215 +	Y1315 +	Y1415	<	428
2	15	Y2115 +	Y2215 +	Y2315 +	Y2415	<	32
3	15	Y3115 +	Y3215 +	Y3315 +	Y3415	<	31
4	15	Y4115 +	Y4215 +	Y4315 +	Y4415	<	142
1	16	Y1116 +	Y1216 +	Y1316 +	Y1416	<	428
2	16	Y2116 +	Y2216 +	Y2316 +	Y2416	<	32
3	16	Y3116 +	Y3216 +	Y3316 +	Y3416	<	31
4	16	Y4116 +	Y4216 +	Y4316 +	Y4416	<	142
1	17	Y1117 +	Y1217 +	Y1317 +	Y1417	<	428
2	17	Y2117 +	Y2217 +	Y2317 +	Y2417	<	32
3	17	Y3117 +	Y3217 +	Y3317 +	Y3417	<	31
4	17	Y4117 +	Y4217 +	Y4317 +	Y4417	<	142
1	18	Y1118 +	Y1218 +	Y1318 +	Y1418	<	428
2	18	Y2118 +	Y2218 +	Y2318 +	Y2418	<	32
3	18	Y3118 +	Y3218 +	Y3318 +	Y3418	<	31
4	18	Y4118 +	Y4218 +	Y4318 +	Y4418	<	142
1	19	Y1119 +	Y1219 +	Y1319 +	Y1419	<	428
2	19	Y2119 +	Y2219 +	Y2319 +	Y2419	<	32
3	19	Y3119 +	Y3219 +	Y3319 +	Y3419	<	31
4	19	Y4119 +	Y4219 +	Y4319 +	Y4419	<	142
1	20	Y1120 +	Y1220 +	Y1320 +	Y1420	<	428
2	20	Y2120 +	Y2220 +	Y2320 +	Y2420	<	32
3	20	Y3120 +	Y3220 +	Y3320 +	Y3420	<	31
4	20	Y4120 +	Y4220 +	Y4320 +	Y4420	<	142
1	21	Y1121 +	Y1221 +	Y1321 +	Y1421	<	428
2	21	Y2121 +	Y2221 +	Y2321 +	Y2421	<	32
3	21	Y3121 +	Y3221 +	Y3321 +	Y3421	<	31
4	21	Y4121 +	Y4221 +	Y4321 +	Y4421	<	142
1	22	Y1122 +	Y1222 +	Y1322 +	Y1422	<	428
2	22	Y2122 +	Y2222 +	Y2322 +	Y2422	<	32
3	22	Y3122 +	Y3222 +	Y3322 +	Y3422	<	31
4	22	Y4122 +	Y4222 +	Y4322 +	Y4422	<	142
1	23	Y1123 +	Y1223 +	Y1323 +	Y1423	<	428
2	23	Y2123 +	Y2223 +	Y2323 +	Y2423	<	32
3	23	Y3123 +	Y3223 +	Y3323 +	Y3423	<	31
4	23	Y4123 +	Y4223 +	Y4323 +	Y4423	<	142
1	24	Y1124 +	Y1224 +	Y1324 +	Y1424	<	428
2	24	Y2124 +	Y2224 +	Y2324 +	Y2424	<	32
3	24	Y3124 +	Y3224 +	Y3324 +	Y3424	<	31
4	24	Y4124 +	Y4224 +	Y4324 +	Y4424	<	142
1	25	Y1125 +	Y1225 +	Y1325 +	Y1425	<	428
2	25	Y2125 +	Y2225 +	Y2325 +	Y2425	<	32
3	25	Y3125 +	Y3225 +	Y3325 +	Y3425	<	31
4	25	Y4125 +	Y4225 +	Y4325 +	Y4425	<	142
1	26	Y1126 +	Y1226 +	Y1326 +	Y1426	<	428
2	26	Y2126 +	Y2226 +	Y2326 +	Y2426	<	32
3	26	Y3126 +	Y3226 +	Y3326 +	Y3426	<	31
4	26	Y4126 +	Y4226 +	Y4326 +	Y4426	<	142
1	27	Y1127 +	Y1227 +	Y1327 +	Y1427	<	428
2	27	Y2127 +	Y2227 +	Y2327 +	Y2427	<	32
3	27	Y3127 +	Y3227 +	Y3327 +	Y3427	<	31
4	27	Y4127 +	Y4227 +	Y4327 +	Y4427	<	142
1	28	Y1128 +	Y1228 +	Y1328 +	Y1428	<	428
2	28	Y2128 +	Y2228 +	Y2328 +	Y2428	<	32
3	28	Y3128 +	Y3228 +	Y3328 +	Y3428	<	31
4	28	Y4128 +	Y4228 +	Y4328 +	Y4428	<	142
1	29	Y1129 +	Y1229 +	Y1329 +	Y1429	<	428
2	29	Y2129 +	Y2229 +	Y2329 +	Y2429	<	32
3	29	Y3129 +	Y3229 +	Y3329 +	Y3429	<	31
4	29	Y4129 +	Y4229 +	Y4329 +	Y4429	<	142
1	30	Y1130 +	Y1230 +	Y1330 +	Y1430	<	428
2	30	Y2130 +	Y2230 +	Y2330 +	Y2430	<	32
3	30	Y3130 +	Y3230 +	Y3330 +	Y3430	<	31
4	30	Y4130 +	Y4230 +	Y4330 +	Y4430	<	142

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Nota
Introduciendo las disponibilidades diarias en el recuento de la izquierda para el primer día, automáticamente se actualizarán las disponibilidades para todos los días.

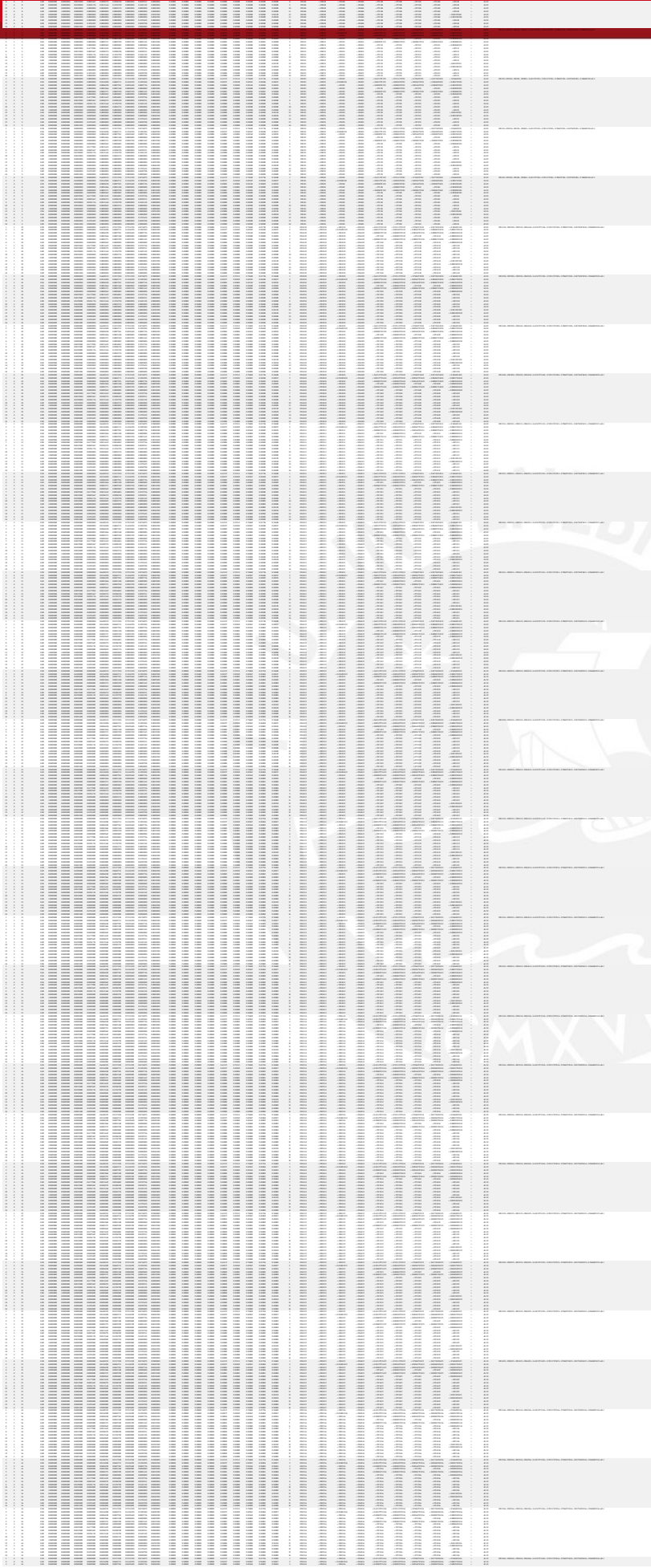
RESUMEN Y ABSTRACTO DE LA TESIS PARA EL COMPLETAMIENTO DE LOS DATOS DE LA TESIS

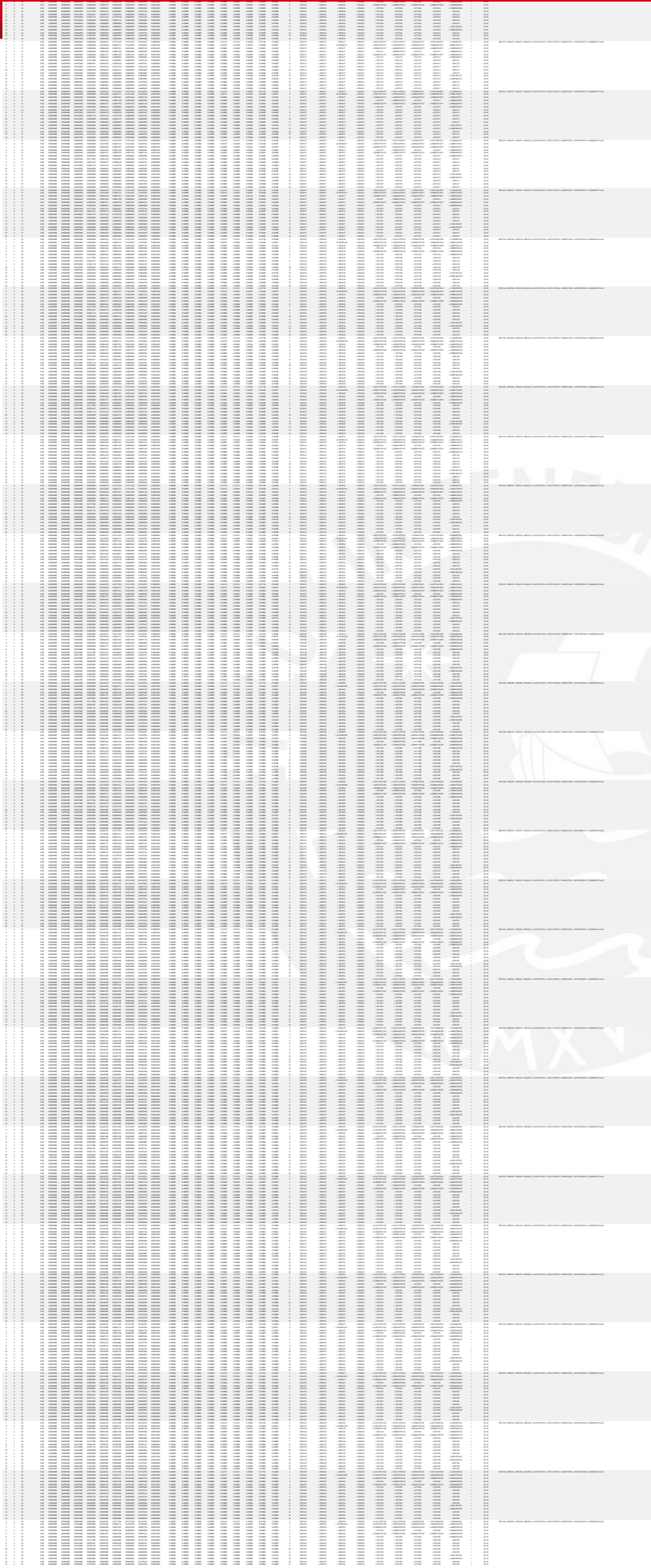
Código de Clasificación	Título de la Tesis	Autor	Resumen	Abstract
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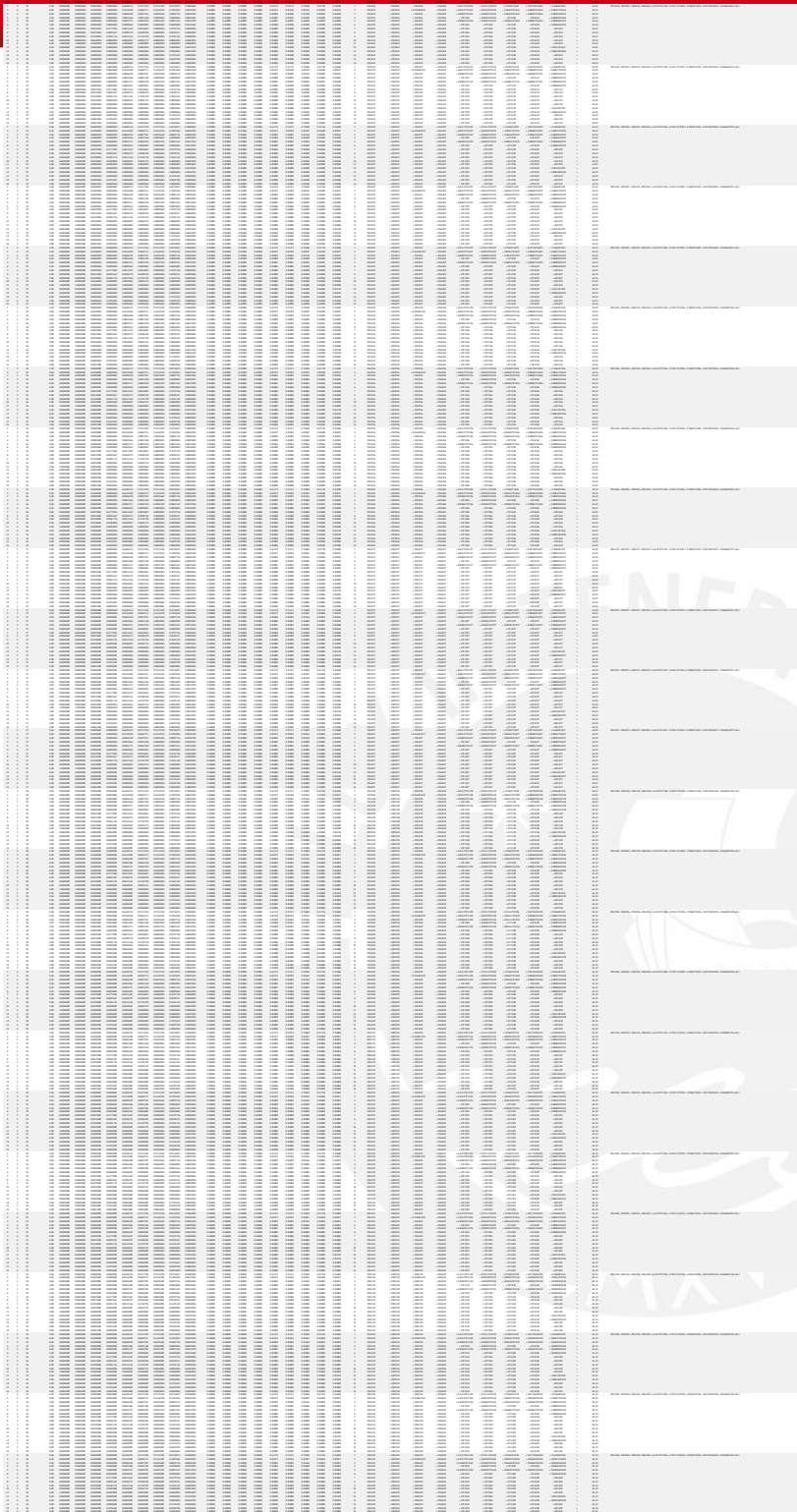
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RESTRICCIONES PARA EL EMPLEO DE LOS INGREDIENTES DEL TIPO 1 (Hj,k)

Lote	Día	Y		Z		
		1	2	1		
1	1	Y111 +	Y211 +	Z111 -	H11	= 0
2	1	Y121 +	Y221 +	Z121 -	H21	= 0
3	1	Y131 +	Y231 +	Z131 -	H31	= 0
4	1	Y141 +	Y241 +	Z141 -	H41	= 0
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2	2	Y122 +	Y222 +	Z122 -	H22	= 0
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2	4	Y124 +	Y224 +	Z124 -	H24	= 0
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2	5	Y125 +	Y225 +	Z125 -	H25	= 0
3	5	Y135 +	Y235 +	Z135 -	H35	= 0
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2	6	Y126 +	Y226 +	Z126 -	H26	= 0
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4	6	Y146 +	Y246 +	Z146 -	H46	= 0
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2	7	Y127 +	Y227 +	Z127 -	H27	= 0
3	7	Y137 +	Y237 +	Z137 -	H37	= 0
4	7	Y147 +	Y247 +	Z147 -	H47	= 0
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2	8	Y128 +	Y228 +	Z128 -	H28	= 0
3	8	Y138 +	Y238 +	Z138 -	H38	= 0
4	8	Y148 +	Y248 +	Z148 -	H48	= 0
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RESTRICCIONES PARA EL EMPLEO DE LOS INGREDIENTES DEL TIPO 1 (para X1,j,k y X2,j,k)

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4	1	X141 - 0.1357H41 > 0	X241 - 0.05H41 > 0
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2	3	X123 - 0.1357H23 > 0	X223 - 0.05H23 > 0
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4	3	X143 - 0.1357H43 > 0	X243 - 0.05H43 > 0
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2	17	X127 - 0.1357H27 > 0	X227 - 0.05H27 > 0
3	17	X137 - 0.1357H37 > 0	X237 - 0.05H37 > 0
4	17	X147 - 0.1357H47 > 0	X247 - 0.05H47 > 0
1	18	X118 - 0.1357H18 > 0	X218 - 0.05H18 > 0
2	18	X128 - 0.1357H28 > 0	X228 - 0.05H28 > 0
3	18	X138 - 0.1357H38 > 0	X238 - 0.05H38 > 0
4	18	X148 - 0.1357H48 > 0	X248 - 0.05H48 > 0
1	19	X119 - 0.1357H19 > 0	X219 - 0.05H19 > 0
2	19	X129 - 0.1357H29 > 0	X229 - 0.05H29 > 0
3	19	X139 - 0.1357H39 > 0	X239 - 0.05H39 > 0
4	19	X149 - 0.1357H49 > 0	X249 - 0.05H49 > 0
1	20	X120 - 0.1357H20 > 0	X220 - 0.05H20 > 0
2	20	X130 - 0.1357H30 > 0	X230 - 0.05H30 > 0
3	20	X140 - 0.1357H40 > 0	X240 - 0.05H40 > 0
4	20	X110 - 0.1357H10 > 0	X210 - 0.05H10 > 0
1	21	X121 - 0.1357H21 > 0	X221 - 0.05H21 > 0
2	21	X132 - 0.1357H32 > 0	X232 - 0.05H32 > 0
3	21	X143 - 0.1357H43 > 0	X243 - 0.05H43 > 0
4	21	X113 - 0.1357H13 > 0	X213 - 0.05H13 > 0
1	22	X122 - 0.1357H22 > 0	X222 - 0.05H22 > 0
2	22	X133 - 0.1357H33 > 0	X233 - 0.05H33 > 0
3	22	X144 - 0.1357H44 > 0	X244 - 0.05H44 > 0
4	22	X114 - 0.1357H14 > 0	X214 - 0.05H14 > 0
1	23	X123 - 0.1357H23 > 0	X223 - 0.05H23 > 0
2	23	X134 - 0.1357H34 > 0	X234 - 0.05H34 > 0
3	23	X145 - 0.1357H45 > 0	X245 - 0.05H45 > 0
4	23	X115 - 0.1357H15 > 0	X215 - 0.05H15 > 0
1	24	X124 - 0.1357H24 > 0	X224 - 0.05H24 > 0
2	24	X135 - 0.1357H35 > 0	X235 - 0.05H35 > 0
3	24	X146 - 0.1357H46 > 0	X246 - 0.05H46 > 0
4	24	X116 - 0.1357H16 > 0	X216 - 0.05H16 > 0
1	25	X125 - 0.1357H25 > 0	X225 - 0.05H25 > 0
2	25	X136 - 0.1357H36 > 0	X236 - 0.05H36 > 0
3	25	X147 - 0.1357H47 > 0	X247 - 0.05H47 > 0
4	25	X117 - 0.1357H17 > 0	X217 - 0.05H17 > 0
1	26	X126 - 0.1357H26 > 0	X226 - 0.05H26 > 0
2	26	X137 - 0.1357H37 > 0	X237 - 0.05H37 > 0
3	26	X148 - 0.1357H48 > 0	X248 - 0.05H48 > 0
4	26	X118 - 0.1357H18 > 0	X218 - 0.05H18 > 0
1	27	X127 - 0.1357H27 > 0	X227 - 0.05H27 > 0
2	27	X138 - 0.1357H38 > 0	X238 - 0.05H38 > 0
3	27	X149 - 0.1357H49 > 0	X249 - 0.05H49 > 0
4	27	X119 - 0.1357H19 > 0	X219 - 0.05H19 > 0
1	28	X128 - 0.1357H28 > 0	X228 - 0.05H28 > 0
2	28	X139 - 0.1357H39 > 0	X239 - 0.05H39 > 0
3	28	X140 - 0.1357H40 > 0	X240 - 0.05H40 > 0
4	28	X120 - 0.1357H20 > 0	X220 - 0.05H20 > 0
1	29	X129 - 0.1357H29 > 0	X229 - 0.05H29 > 0
2	29	X130 - 0.1357H30 > 0	X230 - 0.05H30 > 0
3	29	X141 - 0.1357H41 > 0	X241 - 0.05H41 > 0
4	29	X121 - 0.1357H21 > 0	X221 - 0.05H21 > 0
1	30	X131 - 0.1357H31 > 0	X231 - 0.05H31 > 0
2	30	X142 - 0.1357H42 > 0	X242 - 0.05H42 > 0
3	30	X112 - 0.1357H12 > 0	X212 - 0.05H12 > 0
4	30	X122 - 0.1357H22 > 0	X222 - 0.05H22 > 0

r1	r2
0.1357	0.05

Nota:
Al actualizar las celdas doradas de arriba se actualizan todas las ecuaciones.



RESTRICCIONES PARA EL EMPLEO DE LOS INGREDIENTES DEL TIPO 1 (para X3,j,k y X4,j,k)

Lote	Día	X	
		3	4
1	1	X311 - 0.0018N11 > 0	X411 - 0.0178N11 > 0
2	1	X321 - 0.0018N21 > 0	X421 - 0.0178N21 > 0
3	1	X331 - 0.0018N31 > 0	X431 - 0.0178N31 > 0
4	1	X341 - 0.0018N41 > 0	X441 - 0.0178N41 > 0
1	2	X312 - 0.0018N12 > 0	X412 - 0.0178N12 > 0
2	2	X322 - 0.0018N22 > 0	X422 - 0.0178N22 > 0
3	2	X332 - 0.0018N32 > 0	X432 - 0.0178N32 > 0
4	2	X342 - 0.0018N42 > 0	X442 - 0.0178N42 > 0
1	3	X313 - 0.0018N13 > 0	X413 - 0.0178N13 > 0
2	3	X323 - 0.0018N23 > 0	X423 - 0.0178N23 > 0
3	3	X333 - 0.0018N33 > 0	X433 - 0.0178N33 > 0
4	3	X343 - 0.0018N43 > 0	X443 - 0.0178N43 > 0
1	4	X314 - 0.0018N14 > 0	X414 - 0.0178N14 > 0
2	4	X324 - 0.0018N24 > 0	X424 - 0.0178N24 > 0
3	4	X334 - 0.0018N34 > 0	X434 - 0.0178N34 > 0
4	4	X344 - 0.0018N44 > 0	X444 - 0.0178N44 > 0
1	5	X315 - 0.0018N15 > 0	X415 - 0.0178N15 > 0
2	5	X325 - 0.0018N25 > 0	X425 - 0.0178N25 > 0
3	5	X335 - 0.0018N35 > 0	X435 - 0.0178N35 > 0
4	5	X345 - 0.0018N45 > 0	X445 - 0.0178N45 > 0
1	6	X316 - 0.0018N16 > 0	X416 - 0.0178N16 > 0
2	6	X326 - 0.0018N26 > 0	X426 - 0.0178N26 > 0
3	6	X336 - 0.0018N36 > 0	X436 - 0.0178N36 > 0
4	6	X346 - 0.0018N46 > 0	X446 - 0.0178N46 > 0
1	7	X317 - 0.0018N17 > 0	X417 - 0.0178N17 > 0
2	7	X327 - 0.0018N27 > 0	X427 - 0.0178N27 > 0
3	7	X337 - 0.0018N37 > 0	X437 - 0.0178N37 > 0
4	7	X347 - 0.0018N47 > 0	X447 - 0.0178N47 > 0
1	8	X318 - 0.0018N18 > 0	X418 - 0.0178N18 > 0
2	8	X328 - 0.0018N28 > 0	X428 - 0.0178N28 > 0
3	8	X338 - 0.0018N38 > 0	X438 - 0.0178N38 > 0
4	8	X348 - 0.0018N48 > 0	X448 - 0.0178N48 > 0
1	9	X319 - 0.0018N19 > 0	X419 - 0.0178N19 > 0
2	9	X329 - 0.0018N29 > 0	X429 - 0.0178N29 > 0
3	9	X339 - 0.0018N39 > 0	X439 - 0.0178N39 > 0
4	9	X349 - 0.0018N49 > 0	X449 - 0.0178N49 > 0
1	10	X310 - 0.0018N10 > 0	X410 - 0.0178N10 > 0
2	10	X320 - 0.0018N20 > 0	X420 - 0.0178N20 > 0
3	10	X330 - 0.0018N30 > 0	X430 - 0.0178N30 > 0
4	10	X340 - 0.0018N40 > 0	X440 - 0.0178N40 > 0
1	11	X311 - 0.0018N11 > 0	X411 - 0.0178N11 > 0
2	11	X321 - 0.0018N21 > 0	X421 - 0.0178N21 > 0
3	11	X331 - 0.0018N31 > 0	X431 - 0.0178N31 > 0
4	11	X341 - 0.0018N41 > 0	X441 - 0.0178N41 > 0
1	12	X312 - 0.0018N12 > 0	X412 - 0.0178N12 > 0
2	12	X322 - 0.0018N22 > 0	X422 - 0.0178N22 > 0
3	12	X332 - 0.0018N32 > 0	X432 - 0.0178N32 > 0
4	12	X342 - 0.0018N42 > 0	X442 - 0.0178N42 > 0
1	13	X313 - 0.0018N13 > 0	X413 - 0.0178N13 > 0
2	13	X323 - 0.0018N23 > 0	X423 - 0.0178N23 > 0
3	13	X333 - 0.0018N33 > 0	X433 - 0.0178N33 > 0
4	13	X343 - 0.0018N43 > 0	X443 - 0.0178N43 > 0
1	14	X314 - 0.0018N14 > 0	X414 - 0.0178N14 > 0
2	14	X324 - 0.0018N24 > 0	X424 - 0.0178N24 > 0
3	14	X334 - 0.0018N34 > 0	X434 - 0.0178N34 > 0
4	14	X344 - 0.0018N44 > 0	X444 - 0.0178N44 > 0
1	15	X315 - 0.0018N15 > 0	X415 - 0.0178N15 > 0
2	15	X325 - 0.0018N25 > 0	X425 - 0.0178N25 > 0
3	15	X335 - 0.0018N35 > 0	X435 - 0.0178N35 > 0
4	15	X345 - 0.0018N45 > 0	X445 - 0.0178N45 > 0
1	16	X316 - 0.0018N16 > 0	X416 - 0.0178N16 > 0
2	16	X326 - 0.0018N26 > 0	X426 - 0.0178N26 > 0
3	16	X336 - 0.0018N36 > 0	X436 - 0.0178N36 > 0
4	16	X346 - 0.0018N46 > 0	X446 - 0.0178N46 > 0
1	17	X317 - 0.0018N17 > 0	X417 - 0.0178N17 > 0
2	17	X327 - 0.0018N27 > 0	X427 - 0.0178N27 > 0
3	17	X337 - 0.0018N37 > 0	X437 - 0.0178N37 > 0
4	17	X347 - 0.0018N47 > 0	X447 - 0.0178N47 > 0
1	18	X318 - 0.0018N18 > 0	X418 - 0.0178N18 > 0
2	18	X328 - 0.0018N28 > 0	X428 - 0.0178N28 > 0
3	18	X338 - 0.0018N38 > 0	X438 - 0.0178N38 > 0
4	18	X348 - 0.0018N48 > 0	X448 - 0.0178N48 > 0
1	19	X319 - 0.0018N19 > 0	X419 - 0.0178N19 > 0
2	19	X329 - 0.0018N29 > 0	X429 - 0.0178N29 > 0
3	19	X339 - 0.0018N39 > 0	X439 - 0.0178N39 > 0
4	19	X349 - 0.0018N49 > 0	X449 - 0.0178N49 > 0
1	20	X310 - 0.0018N10 > 0	X410 - 0.0178N10 > 0
2	20	X320 - 0.0018N20 > 0	X420 - 0.0178N20 > 0
3	20	X330 - 0.0018N30 > 0	X430 - 0.0178N30 > 0
4	20	X340 - 0.0018N40 > 0	X440 - 0.0178N40 > 0
1	21	X3121 - 0.0018N121 > 0	X421 - 0.0178N121 > 0
2	21	X3221 - 0.0018N221 > 0	X4221 - 0.0178N221 > 0
3	21	X3321 - 0.0018N321 > 0	X4321 - 0.0178N321 > 0
4	21	X3421 - 0.0018N421 > 0	X4421 - 0.0178N421 > 0
1	22	X3122 - 0.0018N122 > 0	X422 - 0.0178N122 > 0
2	22	X3222 - 0.0018N222 > 0	X4222 - 0.0178N222 > 0
3	22	X3322 - 0.0018N322 > 0	X4322 - 0.0178N322 > 0
4	22	X3422 - 0.0018N422 > 0	X4422 - 0.0178N422 > 0
1	23	X3123 - 0.0018N123 > 0	X423 - 0.0178N123 > 0
2	23	X3223 - 0.0018N223 > 0	X4223 - 0.0178N223 > 0
3	23	X3323 - 0.0018N323 > 0	X4323 - 0.0178N323 > 0
4	23	X3423 - 0.0018N423 > 0	X4423 - 0.0178N423 > 0
1	24	X3124 - 0.0018N124 > 0	X424 - 0.0178N124 > 0
2	24	X3224 - 0.0018N224 > 0	X4224 - 0.0178N224 > 0
3	24	X3324 - 0.0018N324 > 0	X4324 - 0.0178N324 > 0
4	24	X3424 - 0.0018N424 > 0	X4424 - 0.0178N424 > 0
1	25	X3125 - 0.0018N125 > 0	X425 - 0.0178N125 > 0
2	25	X3225 - 0.0018N225 > 0	X4225 - 0.0178N225 > 0
3	25	X3325 - 0.0018N325 > 0	X4325 - 0.0178N325 > 0
4	25	X3425 - 0.0018N425 > 0	X4425 - 0.0178N425 > 0
1	26	X3126 - 0.0018N126 > 0	X426 - 0.0178N126 > 0
2	26	X3226 - 0.0018N226 > 0	X4226 - 0.0178N226 > 0
3	26	X3326 - 0.0018N326 > 0	X4326 - 0.0178N326 > 0
4	26	X3426 - 0.0018N426 > 0	X4426 - 0.0178N426 > 0
1	27	X3127 - 0.0018N127 > 0	X427 - 0.0178N127 > 0
2	27	X3227 - 0.0018N227 > 0	X4227 - 0.0178N227 > 0
3	27	X3327 - 0.0018N327 > 0	X4327 - 0.0178N327 > 0
4	27	X3427 - 0.0018N427 > 0	X4427 - 0.0178N427 > 0
1	28	X3128 - 0.0018N128 > 0	X428 - 0.0178N128 > 0
2	28	X3228 - 0.0018N228 > 0	X4228 - 0.0178N228 > 0
3	28	X3328 - 0.0018N328 > 0	X4328 - 0.0178N328 > 0
4	28	X3428 - 0.0018N428 > 0	X4428 - 0.0178N428 > 0
1	29	X3129 - 0.0018N129 > 0	X429 - 0.0178N129 > 0
2	29	X3229 - 0.0018N229 > 0	X4229 - 0.0178N229 > 0
3	29	X3329 - 0.0018N329 > 0	X4329 - 0.0178N329 > 0
4	29	X3429 - 0.0018N429 > 0	X4429 - 0.0178N429 > 0
1	30	X3130 - 0.0018N130 > 0	X430 - 0.0178N130 > 0
2	30	X3230 - 0.0018N230 > 0	X4230 - 0.0178N230 > 0
3	30	X3330 - 0.0018N330 > 0	X4330 - 0.0178N330 > 0
4	30	X3430 - 0.0018N430 > 0	X4430 - 0.0178N430 > 0

s1	s2
0.0018	0.0178

Nota:
Al actualizar las celdas doradas de arriba se actualizan todas las ecuaciones.



RESTRICCIONES PARA EL EMPLEO DE LOS INGREDIENTES DEL TIPO 1 (relación entre X1,j,k y X2,j,k)

Lote	Día	pf	pr	X			
				1	2		
1	1	0.0839	0.0309	0.0309X111 -	0.0839X211	>	0
2	1	0.0839	0.0309	0.0309X121 -	0.0839X221	>	0
3	1	0.0839	0.0309	0.0309X131 -	0.0839X231	>	0
4	1	0.0839	0.0309	0.0309X141 -	0.0839X241	>	0
1	2	0.0839	0.0309	0.0309X112 -	0.0839X212	>	0
2	2	0.0839	0.0309	0.0309X122 -	0.0839X222	>	0
3	2	0.0839	0.0309	0.0309X132 -	0.0839X232	>	0
4	2	0.0839	0.0309	0.0309X142 -	0.0839X242	>	0
1	3	0.0839	0.0309	0.0309X113 -	0.0839X213	>	0
2	3	0.0839	0.0309	0.0309X123 -	0.0839X223	>	0
3	3	0.0839	0.0309	0.0309X133 -	0.0839X233	>	0
4	3	0.0839	0.0309	0.0309X143 -	0.0839X243	>	0
1	4	0.0839	0.0309	0.0309X114 -	0.0839X214	>	0
2	4	0.0839	0.0309	0.0309X124 -	0.0839X224	>	0
3	4	0.0839	0.0309	0.0309X134 -	0.0839X234	>	0
4	4	0.0839	0.0309	0.0309X144 -	0.0839X244	>	0
1	5	0.0839	0.0309	0.0309X115 -	0.0839X215	>	0
2	5	0.0839	0.0309	0.0309X125 -	0.0839X225	>	0
3	5	0.0839	0.0309	0.0309X135 -	0.0839X235	>	0
4	5	0.0839	0.0309	0.0309X145 -	0.0839X245	>	0
1	6	0.0839	0.0309	0.0309X116 -	0.0839X216	>	0
2	6	0.0839	0.0309	0.0309X126 -	0.0839X226	>	0
3	6	0.0839	0.0309	0.0309X136 -	0.0839X236	>	0
4	6	0.0839	0.0309	0.0309X146 -	0.0839X246	>	0
1	7	0.0839	0.0309	0.0309X117 -	0.0839X217	>	0
2	7	0.0839	0.0309	0.0309X127 -	0.0839X227	>	0
3	7	0.0839	0.0309	0.0309X137 -	0.0839X237	>	0
4	7	0.0839	0.0309	0.0309X147 -	0.0839X247	>	0
1	8	0.0839	0.0309	0.0309X118 -	0.0839X218	>	0
2	8	0.0839	0.0309	0.0309X128 -	0.0839X228	>	0
3	8	0.0839	0.0309	0.0309X138 -	0.0839X238	>	0
4	8	0.0839	0.0309	0.0309X148 -	0.0839X248	>	0
1	9	0.0839	0.0309	0.0309X119 -	0.0839X219	>	0
2	9	0.0839	0.0309	0.0309X129 -	0.0839X229	>	0
3	9	0.0839	0.0309	0.0309X139 -	0.0839X239	>	0
4	9	0.0839	0.0309	0.0309X149 -	0.0839X249	>	0
1	10	0.0839	0.0309	0.0309X110 -	0.0839X210	>	0
2	10	0.0839	0.0309	0.0309X120 -	0.0839X220	>	0
3	10	0.0839	0.0309	0.0309X130 -	0.0839X230	>	0
4	10	0.0839	0.0309	0.0309X140 -	0.0839X240	>	0
1	11	0.0839	0.0309	0.0309X111 -	0.0839X211	>	0
2	11	0.0839	0.0309	0.0309X121 -	0.0839X221	>	0
3	11	0.0839	0.0309	0.0309X131 -	0.0839X231	>	0
4	11	0.0839	0.0309	0.0309X141 -	0.0839X241	>	0
1	12	0.0839	0.0309	0.0309X112 -	0.0839X212	>	0
2	12	0.0839	0.0309	0.0309X122 -	0.0839X222	>	0
3	12	0.0839	0.0309	0.0309X132 -	0.0839X232	>	0
4	12	0.0839	0.0309	0.0309X142 -	0.0839X242	>	0
1	13	0.0839	0.0309	0.0309X113 -	0.0839X213	>	0
2	13	0.0839	0.0309	0.0309X123 -	0.0839X223	>	0
3	13	0.0839	0.0309	0.0309X133 -	0.0839X233	>	0
4	13	0.0839	0.0309	0.0309X143 -	0.0839X243	>	0
1	14	0.0839	0.0309	0.0309X114 -	0.0839X214	>	0
2	14	0.0839	0.0309	0.0309X124 -	0.0839X224	>	0
3	14	0.0839	0.0309	0.0309X134 -	0.0839X234	>	0
4	14	0.0839	0.0309	0.0309X144 -	0.0839X244	>	0
1	15	0.0839	0.0309	0.0309X115 -	0.0839X215	>	0
2	15	0.0839	0.0309	0.0309X125 -	0.0839X225	>	0
3	15	0.0839	0.0309	0.0309X135 -	0.0839X235	>	0
4	15	0.0839	0.0309	0.0309X145 -	0.0839X245	>	0
1	16	0.0839	0.0309	0.0309X116 -	0.0839X216	>	0
2	16	0.0839	0.0309	0.0309X126 -	0.0839X226	>	0
3	16	0.0839	0.0309	0.0309X136 -	0.0839X236	>	0
4	16	0.0839	0.0309	0.0309X146 -	0.0839X246	>	0
1	17	0.0839	0.0309	0.0309X117 -	0.0839X217	>	0
2	17	0.0839	0.0309	0.0309X127 -	0.0839X227	>	0
3	17	0.0839	0.0309	0.0309X137 -	0.0839X237	>	0
4	17	0.0839	0.0309	0.0309X147 -	0.0839X247	>	0
1	18	0.0839	0.0309	0.0309X118 -	0.0839X218	>	0
2	18	0.0839	0.0309	0.0309X128 -	0.0839X228	>	0
3	18	0.0839	0.0309	0.0309X138 -	0.0839X238	>	0
4	18	0.0839	0.0309	0.0309X148 -	0.0839X248	>	0
1	19	0.0839	0.0309	0.0309X119 -	0.0839X219	>	0
2	19	0.0839	0.0309	0.0309X129 -	0.0839X229	>	0
3	19	0.0839	0.0309	0.0309X139 -	0.0839X239	>	0
4	19	0.0839	0.0309	0.0309X149 -	0.0839X249	>	0
1	20	0.0839	0.0309	0.0309X120 -	0.0839X220	>	0
2	20	0.0839	0.0309	0.0309X130 -	0.0839X230	>	0
3	20	0.0839	0.0309	0.0309X140 -	0.0839X240	>	0
4	20	0.0839	0.0309	0.0309X150 -	0.0839X250	>	0
1	21	0.0839	0.0309	0.0309X121 -	0.0839X221	>	0
2	21	0.0839	0.0309	0.0309X131 -	0.0839X231	>	0
3	21	0.0839	0.0309	0.0309X141 -	0.0839X241	>	0
4	21	0.0839	0.0309	0.0309X151 -	0.0839X251	>	0
1	22	0.0839	0.0309	0.0309X122 -	0.0839X222	>	0
2	22	0.0839	0.0309	0.0309X132 -	0.0839X232	>	0
3	22	0.0839	0.0309	0.0309X142 -	0.0839X242	>	0
4	22	0.0839	0.0309	0.0309X152 -	0.0839X252	>	0
1	23	0.0839	0.0309	0.0309X123 -	0.0839X223	>	0
2	23	0.0839	0.0309	0.0309X133 -	0.0839X233	>	0
3	23	0.0839	0.0309	0.0309X143 -	0.0839X243	>	0
4	23	0.0839	0.0309	0.0309X153 -	0.0839X253	>	0
1	24	0.0839	0.0309	0.0309X124 -	0.0839X224	>	0
2	24	0.0839	0.0309	0.0309X134 -	0.0839X234	>	0
3	24	0.0839	0.0309	0.0309X144 -	0.0839X244	>	0
4	24	0.0839	0.0309	0.0309X154 -	0.0839X254	>	0
1	25	0.0839	0.0309	0.0309X125 -	0.0839X225	>	0
2	25	0.0839	0.0309	0.0309X135 -	0.0839X235	>	0
3	25	0.0839	0.0309	0.0309X145 -	0.0839X245	>	0
4	25	0.0839	0.0309	0.0309X155 -	0.0839X255	>	0
1	26	0.0839	0.0309	0.0309X126 -	0.0839X226	>	0
2	26	0.0839	0.0309	0.0309X136 -	0.0839X236	>	0
3	26	0.0839	0.0309	0.0309X146 -	0.0839X246	>	0
4	26	0.0839	0.0309	0.0309X156 -	0.0839X256	>	0
1	27	0.0839	0.0309	0.0309X127 -	0.0839X227	>	0
2	27	0.0839	0.0309	0.0309X137 -	0.0839X237	>	0
3	27	0.0839	0.0309	0.0309X147 -	0.0839X247	>	0
4	27	0.0839	0.0309	0.0309X157 -	0.0839X257	>	0
1	28	0.0839	0.0309	0.0309X128 -	0.0839X228	>	0
2	28	0.0839	0.0309	0.0309X138 -	0.0839X238	>	0
3	28	0.0839	0.0309	0.0309X148 -	0.0839X248	>	0
4	28	0.0839	0.0309	0.0309X158 -	0.0839X258	>	0
1	29	0.0839	0.0309	0.0309X129 -	0.0839X229	>	0
2	29	0.0839	0.0309	0.0309X139 -	0.0839X239	>	0
3	29	0.0839	0.0309	0.0309X149 -	0.0839X249	>	0
4	29	0.0839	0.0309	0.0309X159 -	0.0839X259	>	0
1	30	0.0839	0.0309	0.0309X130 -	0.0839X230	>	0
2	30	0.0839	0.0309	0.0309X140 -	0.0839X240	>	0
3	30	0.0839	0.0309	0.0309X150 -	0.0839X250	>	0
4	30	0.0839	0.0309	0.0309X160 -	0.0839X260	>	0

pf	pr
0.0839	0.0309

Nota:

Al actualizar las celdas doradas de arriba se actualizan todas las ecuaciones.



RESTRICCIONES PARA EL EMPLEO DE LOS COMBUSTIBLES

Table with columns: Lote, Día, 1, 2, 3. It contains a grid of mathematical formulas such as V111 - 0.0788N11 > 0, V211 - 0.7215N11 > 0, V311 - 0.1809N11 > 0.

Table with columns: f1, f2, f3. Values: 0.0788, 0.7215, 0.1809.

Nota:

Al actualizar las celdas doradas de arriba se actualizan todas las ecuaciones.





MIN

- 345.49X111 + 345.49X121 + 345.49X131 + 345.49X141 + 345.49X211 + 345.49X221 + 345.49X231 +
- 345.49X112 + 345.49X122 + 345.49X132 + 345.49X142 + 345.49X212 + 345.49X222 + 345.49X232 +
- 345.49X113 + 345.49X123 + 345.49X133 + 345.49X143 + 345.49X213 + 345.49X223 + 345.49X233 +
- 345.49X114 + 345.49X124 + 345.49X134 + 345.49X144 + 345.49X214 + 345.49X224 + 345.49X234 +
- 345.49X115 + 345.49X125 + 345.49X135 + 345.49X145 + 345.49X215 + 345.49X225 + 345.49X235 +
- 345.49X116 + 345.49X126 + 345.49X136 + 345.49X146 + 345.49X216 + 345.49X226 + 345.49X236 +
- 345.49X117 + 345.49X127 + 345.49X137 + 345.49X147 + 345.49X217 + 345.49X227 + 345.49X237 +
- 345.49X118 + 345.49X128 + 345.49X138 + 345.49X148 + 345.49X218 + 345.49X228 + 345.49X238 +
- 345.49X119 + 345.49X129 + 345.49X139 + 345.49X149 + 345.49X219 + 345.49X229 + 345.49X239 +
- 345.49X1110 345.49X1210 345.49X1310 345.49X1410 345.49X2110 345.49X2210 345.49X2310
- 345.49X1111 345.49X1211 345.49X1311 345.49X1411 345.49X2111 345.49X2211 345.49X2311
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495.35V119 + 495.35V129 + 495.35V139 + 495.35V149 + 6.92V219 + 6.92V229 + 6.92V239 +
 495.35V1110 495.35V1210 495.35V1310 495.35V1410 6.92V2110 + 6.92V2210 + 6.92V2310 +
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 495.35V1114 495.35V1214 495.35V1314 495.35V1414 6.92V2114 + 6.92V2214 + 6.92V2314 +
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 495.35V1121 495.35V1221 495.35V1321 495.35V1421 6.92V2121 + 6.92V2221 + 6.92V2321 +
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 495.35V1123 495.35V1223 495.35V1323 495.35V1423 6.92V2123 + 6.92V2223 + 6.92V2323 +
 495.35V1124 495.35V1224 495.35V1324 495.35V1424 6.92V2124 + 6.92V2224 + 6.92V2324 +
 495.35V1125 495.35V1225 495.35V1325 495.35V1425 6.92V2125 + 6.92V2225 + 6.92V2325 +
 495.35V1126 495.35V1226 495.35V1326 495.35V1426 6.92V2126 + 6.92V2226 + 6.92V2326 +
 495.35V1127 495.35V1227 495.35V1327 495.35V1427 6.92V2127 + 6.92V2227 + 6.92V2327 +
 495.35V1128 495.35V1228 495.35V1328 495.35V1428 6.92V2128 + 6.92V2228 + 6.92V2328 +
 495.35V1129 495.35V1229 495.35V1329 495.35V1429 6.92V2129 + 6.92V2229 + 6.92V2329 +
 495.35V1130 495.35V1230 495.35V1330 495.35V1430 6.92V2130 + 6.92V2230 + 6.92V2330 +

ST

X111 +	X211 +	X311 +	X411 +	Y111 +	Y211 +	Y311 +
X121 +	X221 +	X321 +	X421 +	Y121 +	Y221 +	Y321 +
X131 +	X231 +	X331 +	X431 +	Y131 +	Y231 +	Y331 +
X141 +	X241 +	X341 +	X441 +	Y141 +	Y241 +	Y341 +
X112 +	X212 +	X312 +	X412 +	Y112 +	Y212 +	Y312 +
X122 +	X222 +	X322 +	X422 +	Y122 +	Y222 +	Y322 +
X132 +	X232 +	X332 +	X432 +	Y132 +	Y232 +	Y332 +
X142 +	X242 +	X342 +	X442 +	Y142 +	Y242 +	Y342 +
X113 +	X213 +	X313 +	X413 +	Y113 +	Y213 +	Y313 +
X123 +	X223 +	X323 +	X423 +	Y123 +	Y223 +	Y323 +
X133 +	X233 +	X333 +	X433 +	Y133 +	Y233 +	Y333 +
X143 +	X243 +	X343 +	X443 +	Y143 +	Y243 +	Y343 +
X114 +	X214 +	X314 +	X414 +	Y114 +	Y214 +	Y314 +
X124 +	X224 +	X324 +	X424 +	Y124 +	Y224 +	Y324 +
X134 +	X234 +	X334 +	X434 +	Y134 +	Y234 +	Y334 +
X144 +	X244 +	X344 +	X444 +	Y144 +	Y244 +	Y344 +
X115 +	X215 +	X315 +	X415 +	Y115 +	Y215 +	Y315 +
X125 +	X225 +	X325 +	X425 +	Y125 +	Y225 +	Y325 +
X135 +	X235 +	X335 +	X435 +	Y135 +	Y235 +	Y335 +
X145 +	X245 +	X345 +	X445 +	Y145 +	Y245 +	Y345 +
X116 +	X216 +	X316 +	X416 +	Y116 +	Y216 +	Y316 +
X126 +	X226 +	X326 +	X426 +	Y126 +	Y226 +	Y326 +
X136 +	X236 +	X336 +	X436 +	Y136 +	Y236 +	Y336 +
X146 +	X246 +	X346 +	X446 +	Y146 +	Y246 +	Y346 +

X117 +	X217 +	X317 +	X417 +	Y117 +	Y217 +	Y317 +
X127 +	X227 +	X327 +	X427 +	Y127 +	Y227 +	Y327 +
X137 +	X237 +	X337 +	X437 +	Y137 +	Y237 +	Y337 +
X147 +	X247 +	X347 +	X447 +	Y147 +	Y247 +	Y347 +
X118 +	X218 +	X318 +	X418 +	Y118 +	Y218 +	Y318 +
X128 +	X228 +	X328 +	X428 +	Y128 +	Y228 +	Y328 +
X138 +	X238 +	X338 +	X438 +	Y138 +	Y238 +	Y338 +
X148 +	X248 +	X348 +	X448 +	Y148 +	Y248 +	Y348 +
X119 +	X219 +	X319 +	X419 +	Y119 +	Y219 +	Y319 +
X129 +	X229 +	X329 +	X429 +	Y129 +	Y229 +	Y329 +
X139 +	X239 +	X339 +	X439 +	Y139 +	Y239 +	Y339 +
X149 +	X249 +	X349 +	X449 +	Y149 +	Y249 +	Y349 +
X1110 +	X2110 +	X3110 +	X4110 +	Y1110 +	Y2110 +	Y3110 +
X1210 +	X2210 +	X3210 +	X4210 +	Y1210 +	Y2210 +	Y3210 +
X1310 +	X2310 +	X3310 +	X4310 +	Y1310 +	Y2310 +	Y3310 +
X1410 +	X2410 +	X3410 +	X4410 +	Y1410 +	Y2410 +	Y3410 +
X1111 +	X2111 +	X3111 +	X4111 +	Y1111 +	Y2111 +	Y3111 +
X1211 +	X2211 +	X3211 +	X4211 +	Y1211 +	Y2211 +	Y3211 +
X1311 +	X2311 +	X3311 +	X4311 +	Y1311 +	Y2311 +	Y3311 +
X1411 +	X2411 +	X3411 +	X4411 +	Y1411 +	Y2411 +	Y3411 +
X1112 +	X2112 +	X3112 +	X4112 +	Y1112 +	Y2112 +	Y3112 +
X1212 +	X2212 +	X3212 +	X4212 +	Y1212 +	Y2212 +	Y3212 +
X1312 +	X2312 +	X3312 +	X4312 +	Y1312 +	Y2312 +	Y3312 +
X1412 +	X2412 +	X3412 +	X4412 +	Y1412 +	Y2412 +	Y3412 +
X1113 +	X2113 +	X3113 +	X4113 +	Y1113 +	Y2113 +	Y3113 +
X1213 +	X2213 +	X3213 +	X4213 +	Y1213 +	Y2213 +	Y3213 +
X1313 +	X2313 +	X3313 +	X4313 +	Y1313 +	Y2313 +	Y3313 +
X1413 +	X2413 +	X3413 +	X4413 +	Y1413 +	Y2413 +	Y3413 +
X1114 +	X2114 +	X3114 +	X4114 +	Y1114 +	Y2114 +	Y3114 +
X1214 +	X2214 +	X3214 +	X4214 +	Y1214 +	Y2214 +	Y3214 +
X1314 +	X2314 +	X3314 +	X4314 +	Y1314 +	Y2314 +	Y3314 +
X1414 +	X2414 +	X3414 +	X4414 +	Y1414 +	Y2414 +	Y3414 +
X1115 +	X2115 +	X3115 +	X4115 +	Y1115 +	Y2115 +	Y3115 +
X1215 +	X2215 +	X3215 +	X4215 +	Y1215 +	Y2215 +	Y3215 +
X1315 +	X2315 +	X3315 +	X4315 +	Y1315 +	Y2315 +	Y3315 +
X1415 +	X2415 +	X3415 +	X4415 +	Y1415 +	Y2415 +	Y3415 +
X1116 +	X2116 +	X3116 +	X4116 +	Y1116 +	Y2116 +	Y3116 +
X1216 +	X2216 +	X3216 +	X4216 +	Y1216 +	Y2216 +	Y3216 +
X1316 +	X2316 +	X3316 +	X4316 +	Y1316 +	Y2316 +	Y3316 +
X1416 +	X2416 +	X3416 +	X4416 +	Y1416 +	Y2416 +	Y3416 +
X1117 +	X2117 +	X3117 +	X4117 +	Y1117 +	Y2117 +	Y3117 +
X1217 +	X2217 +	X3217 +	X4217 +	Y1217 +	Y2217 +	Y3217 +
X1317 +	X2317 +	X3317 +	X4317 +	Y1317 +	Y2317 +	Y3317 +
X1417 +	X2417 +	X3417 +	X4417 +	Y1417 +	Y2417 +	Y3417 +
X1118 +	X2118 +	X3118 +	X4118 +	Y1118 +	Y2118 +	Y3118 +
X1218 +	X2218 +	X3218 +	X4218 +	Y1218 +	Y2218 +	Y3218 +
X1318 +	X2318 +	X3318 +	X4318 +	Y1318 +	Y2318 +	Y3318 +
X1418 +	X2418 +	X3418 +	X4418 +	Y1418 +	Y2418 +	Y3418 +
X1119 +	X2119 +	X3119 +	X4119 +	Y1119 +	Y2119 +	Y3119 +
X1219 +	X2219 +	X3219 +	X4219 +	Y1219 +	Y2219 +	Y3219 +

X1319 +	X2319 +	X3319 +	X4319 +	Y1319 +	Y2319 +	Y3319 +
X1419 +	X2419 +	X3419 +	X4419 +	Y1419 +	Y2419 +	Y3419 +
X1120 +	X2120 +	X3120 +	X4120 +	Y1120 +	Y2120 +	Y3120 +
X1220 +	X2220 +	X3220 +	X4220 +	Y1220 +	Y2220 +	Y3220 +
X1320 +	X2320 +	X3320 +	X4320 +	Y1320 +	Y2320 +	Y3320 +
X1420 +	X2420 +	X3420 +	X4420 +	Y1420 +	Y2420 +	Y3420 +
X1121 +	X2121 +	X3121 +	X4121 +	Y1121 +	Y2121 +	Y3121 +
X1221 +	X2221 +	X3221 +	X4221 +	Y1221 +	Y2221 +	Y3221 +
X1321 +	X2321 +	X3321 +	X4321 +	Y1321 +	Y2321 +	Y3321 +
X1421 +	X2421 +	X3421 +	X4421 +	Y1421 +	Y2421 +	Y3421 +
X1122 +	X2122 +	X3122 +	X4122 +	Y1122 +	Y2122 +	Y3122 +
X1222 +	X2222 +	X3222 +	X4222 +	Y1222 +	Y2222 +	Y3222 +
X1322 +	X2322 +	X3322 +	X4322 +	Y1322 +	Y2322 +	Y3322 +
X1422 +	X2422 +	X3422 +	X4422 +	Y1422 +	Y2422 +	Y3422 +
X1123 +	X2123 +	X3123 +	X4123 +	Y1123 +	Y2123 +	Y3123 +
X1223 +	X2223 +	X3223 +	X4223 +	Y1223 +	Y2223 +	Y3223 +
X1323 +	X2323 +	X3323 +	X4323 +	Y1323 +	Y2323 +	Y3323 +
X1423 +	X2423 +	X3423 +	X4423 +	Y1423 +	Y2423 +	Y3423 +
X1124 +	X2124 +	X3124 +	X4124 +	Y1124 +	Y2124 +	Y3124 +
X1224 +	X2224 +	X3224 +	X4224 +	Y1224 +	Y2224 +	Y3224 +
X1324 +	X2324 +	X3324 +	X4324 +	Y1324 +	Y2324 +	Y3324 +
X1424 +	X2424 +	X3424 +	X4424 +	Y1424 +	Y2424 +	Y3424 +
X1125 +	X2125 +	X3125 +	X4125 +	Y1125 +	Y2125 +	Y3125 +
X1225 +	X2225 +	X3225 +	X4225 +	Y1225 +	Y2225 +	Y3225 +
X1325 +	X2325 +	X3325 +	X4325 +	Y1325 +	Y2325 +	Y3325 +
X1425 +	X2425 +	X3425 +	X4425 +	Y1425 +	Y2425 +	Y3425 +
X1126 +	X2126 +	X3126 +	X4126 +	Y1126 +	Y2126 +	Y3126 +
X1226 +	X2226 +	X3226 +	X4226 +	Y1226 +	Y2226 +	Y3226 +
X1326 +	X2326 +	X3326 +	X4326 +	Y1326 +	Y2326 +	Y3326 +
X1426 +	X2426 +	X3426 +	X4426 +	Y1426 +	Y2426 +	Y3426 +
X1127 +	X2127 +	X3127 +	X4127 +	Y1127 +	Y2127 +	Y3127 +
X1227 +	X2227 +	X3227 +	X4227 +	Y1227 +	Y2227 +	Y3227 +
X1327 +	X2327 +	X3327 +	X4327 +	Y1327 +	Y2327 +	Y3327 +
X1427 +	X2427 +	X3427 +	X4427 +	Y1427 +	Y2427 +	Y3427 +
X1128 +	X2128 +	X3128 +	X4128 +	Y1128 +	Y2128 +	Y3128 +
X1228 +	X2228 +	X3228 +	X4228 +	Y1228 +	Y2228 +	Y3228 +
X1328 +	X2328 +	X3328 +	X4328 +	Y1328 +	Y2328 +	Y3328 +
X1428 +	X2428 +	X3428 +	X4428 +	Y1428 +	Y2428 +	Y3428 +
X1129 +	X2129 +	X3129 +	X4129 +	Y1129 +	Y2129 +	Y3129 +
X1229 +	X2229 +	X3229 +	X4229 +	Y1229 +	Y2229 +	Y3229 +
X1329 +	X2329 +	X3329 +	X4329 +	Y1329 +	Y2329 +	Y3329 +
X1429 +	X2429 +	X3429 +	X4429 +	Y1429 +	Y2429 +	Y3429 +
X1130 +	X2130 +	X3130 +	X4130 +	Y1130 +	Y2130 +	Y3130 +
X1230 +	X2230 +	X3230 +	X4230 +	Y1230 +	Y2230 +	Y3230 +
X1330 +	X2330 +	X3330 +	X4330 +	Y1330 +	Y2330 +	Y3330 +
X1430 +	X2430 +	X3430 +	X4430 +	Y1430 +	Y2430 +	Y3430 +

N11	<	130
N21	<	130
N31	<	130

Global optimal solution found.

Objective value: 0.2823009E+08
Total solver iterations: 1024

Variable	Value	Reduced Cost
X111	13.76580	0.000000
X121	13.76580	0.000000
X131	13.76580	0.000000
X141	13.76580	0.000000
X211	5.069884	0.000000
X221	5.069884	0.000000
X231	5.069884	0.000000
X241	5.069884	0.000000
X311	0.2340000	0.000000
X321	0.2340000	0.000000
X331	0.2340000	0.000000
X341	0.2340000	0.000000
X411	2.314000	0.000000
X421	2.314000	0.000000
X431	2.314000	0.000000
X441	2.314000	0.000000
X112	13.76580	0.000000
X122	13.76580	0.000000
X132	13.76580	0.000000
X142	13.76580	0.000000
X212	5.069884	0.000000
X222	5.069884	0.000000
X232	5.069884	0.000000
X242	5.069884	0.000000
X312	0.2340000	0.000000
X322	0.2340000	0.000000
X332	0.2340000	0.000000
X342	0.2340000	0.000000
X412	2.314000	0.000000
X422	2.314000	0.000000
X432	2.314000	0.000000
X442	2.314000	0.000000
X113	13.76580	0.000000
X123	13.76580	0.000000
X133	13.76580	0.000000
X143	13.76580	0.000000
X213	5.069884	0.000000
X223	5.069884	0.000000
X233	5.069884	0.000000
X243	5.069884	0.000000
X313	0.2340000	0.000000
X323	0.2340000	0.000000
X333	0.2340000	0.000000
X343	0.2340000	0.000000

FUNCIÓN OBJETIVO

COSTO DE X1

1	345.49			
	Lote			
Día	1	2	3	4
1	345.49X111 +	345.49X121 +	345.49X131 +	345.49X141 +
2	345.49X112 +	345.49X122 +	345.49X132 +	345.49X142 +
3	345.49X113 +	345.49X123 +	345.49X133 +	345.49X143 +
4	345.49X114 +	345.49X124 +	345.49X134 +	345.49X144 +
5	345.49X115 +	345.49X125 +	345.49X135 +	345.49X145 +
6	345.49X116 +	345.49X126 +	345.49X136 +	345.49X146 +
7	345.49X117 +	345.49X127 +	345.49X137 +	345.49X147 +
8	345.49X118 +	345.49X128 +	345.49X138 +	345.49X148 +
9	345.49X119 +	345.49X129 +	345.49X139 +	345.49X149 +
10	345.49X1110 +	345.49X1210 +	345.49X1310 +	345.49X1410 +
11	345.49X1111 +	345.49X1211 +	345.49X1311 +	345.49X1411 +
12	345.49X1112 +	345.49X1212 +	345.49X1312 +	345.49X1412 +
13	345.49X1113 +	345.49X1213 +	345.49X1313 +	345.49X1413 +
14	345.49X1114 +	345.49X1214 +	345.49X1314 +	345.49X1414 +
15	345.49X1115 +	345.49X1215 +	345.49X1315 +	345.49X1415 +
16	345.49X1116 +	345.49X1216 +	345.49X1316 +	345.49X1416 +
17	345.49X1117 +	345.49X1217 +	345.49X1317 +	345.49X1417 +
18	345.49X1118 +	345.49X1218 +	345.49X1318 +	345.49X1418 +
19	345.49X1119 +	345.49X1219 +	345.49X1319 +	345.49X1419 +
20	345.49X1120 +	345.49X1220 +	345.49X1320 +	345.49X1420 +
21	345.49X1121 +	345.49X1221 +	345.49X1321 +	345.49X1421 +
22	345.49X1122 +	345.49X1222 +	345.49X1322 +	345.49X1422 +
23	345.49X1123 +	345.49X1223 +	345.49X1323 +	345.49X1423 +
24	345.49X1124 +	345.49X1224 +	345.49X1324 +	345.49X1424 +
25	345.49X1125 +	345.49X1225 +	345.49X1325 +	345.49X1425 +
26	345.49X1126 +	345.49X1226 +	345.49X1326 +	345.49X1426 +
27	345.49X1127 +	345.49X1227 +	345.49X1327 +	345.49X1427 +
28	345.49X1128 +	345.49X1228 +	345.49X1328 +	345.49X1428 +
29	345.49X1129 +	345.49X1229 +	345.49X1329 +	345.49X1429 +
30	345.49X1130 +	345.49X1230 +	345.49X1330 +	345.49X1430 +

COSTO DE Y1

1	1845.98			
	Lote			
Día	1	2	3	4
1	1845.98Y111 +	1845.98Y121 +	1845.98Y131 +	1845.98Y141 +
2	1845.98Y112 +	1845.98Y122 +	1845.98Y132 +	1845.98Y142 +
3	1845.98Y113 +	1845.98Y123 +	1845.98Y133 +	1845.98Y143 +
4	1845.98Y114 +	1845.98Y124 +	1845.98Y134 +	1845.98Y144 +
5	1845.98Y115 +	1845.98Y125 +	1845.98Y135 +	1845.98Y145 +
6	1845.98Y116 +	1845.98Y126 +	1845.98Y136 +	1845.98Y146 +

7	1845.98Y117 +	1845.98Y127 +	1845.98Y137 +	1845.98Y147 +
8	1845.98Y118 +	1845.98Y128 +	1845.98Y138 +	1845.98Y148 +
9	1845.98Y119 +	1845.98Y129 +	1845.98Y139 +	1845.98Y149 +
10	1845.98Y1110 +	1845.98Y1210 +	1845.98Y1310 +	1845.98Y1410 +
11	1845.98Y1111 +	1845.98Y1211 +	1845.98Y1311 +	1845.98Y1411 +
12	1845.98Y1112 +	1845.98Y1212 +	1845.98Y1312 +	1845.98Y1412 +
13	1845.98Y1113 +	1845.98Y1213 +	1845.98Y1313 +	1845.98Y1413 +
14	1845.98Y1114 +	1845.98Y1214 +	1845.98Y1314 +	1845.98Y1414 +
15	1845.98Y1115 +	1845.98Y1215 +	1845.98Y1315 +	1845.98Y1415 +
16	1845.98Y1116 +	1845.98Y1216 +	1845.98Y1316 +	1845.98Y1416 +
17	1845.98Y1117 +	1845.98Y1217 +	1845.98Y1317 +	1845.98Y1417 +
18	1845.98Y1118 +	1845.98Y1218 +	1845.98Y1318 +	1845.98Y1418 +
19	1845.98Y1119 +	1845.98Y1219 +	1845.98Y1319 +	1845.98Y1419 +
20	1845.98Y1120 +	1845.98Y1220 +	1845.98Y1320 +	1845.98Y1420 +
21	1845.98Y1121 +	1845.98Y1221 +	1845.98Y1321 +	1845.98Y1421 +
22	1845.98Y1122 +	1845.98Y1222 +	1845.98Y1322 +	1845.98Y1422 +
23	1845.98Y1123 +	1845.98Y1223 +	1845.98Y1323 +	1845.98Y1423 +
24	1845.98Y1124 +	1845.98Y1224 +	1845.98Y1324 +	1845.98Y1424 +
25	1845.98Y1125 +	1845.98Y1225 +	1845.98Y1325 +	1845.98Y1425 +
26	1845.98Y1126 +	1845.98Y1226 +	1845.98Y1326 +	1845.98Y1426 +
27	1845.98Y1127 +	1845.98Y1227 +	1845.98Y1327 +	1845.98Y1427 +
28	1845.98Y1128 +	1845.98Y1228 +	1845.98Y1328 +	1845.98Y1428 +
29	1845.98Y1129 +	1845.98Y1229 +	1845.98Y1329 +	1845.98Y1429 +
30	1845.98Y1130 +	1845.98Y1230 +	1845.98Y1330 +	1845.98Y1430 +

COSTO DE Z1

1	29.12			
	Lote			
Día	1	2	3	4
1	29.12Z111 +	29.12Z121 +	29.12Z131 +	29.12Z141 +
2	29.12Z112 +	29.12Z122 +	29.12Z132 +	29.12Z142 +
3	29.12Z113 +	29.12Z123 +	29.12Z133 +	29.12Z143 +
4	29.12Z114 +	29.12Z124 +	29.12Z134 +	29.12Z144 +
5	29.12Z115 +	29.12Z125 +	29.12Z135 +	29.12Z145 +
6	29.12Z116 +	29.12Z126 +	29.12Z136 +	29.12Z146 +
7	29.12Z117 +	29.12Z127 +	29.12Z137 +	29.12Z147 +
8	29.12Z118 +	29.12Z128 +	29.12Z138 +	29.12Z148 +
9	29.12Z119 +	29.12Z129 +	29.12Z139 +	29.12Z149 +
10	29.12Z1110 +	29.12Z1210 +	29.12Z1310 +	29.12Z1410 +
11	29.12Z1111 +	29.12Z1211 +	29.12Z1311 +	29.12Z1411 +
12	29.12Z1112 +	29.12Z1212 +	29.12Z1312 +	29.12Z1412 +
13	29.12Z1113 +	29.12Z1213 +	29.12Z1313 +	29.12Z1413 +
14	29.12Z1114 +	29.12Z1214 +	29.12Z1314 +	29.12Z1414 +
15	29.12Z1115 +	29.12Z1215 +	29.12Z1315 +	29.12Z1415 +
16	29.12Z1116 +	29.12Z1216 +	29.12Z1316 +	29.12Z1416 +
17	29.12Z1117 +	29.12Z1217 +	29.12Z1317 +	29.12Z1417 +
18	29.12Z1118 +	29.12Z1218 +	29.12Z1318 +	29.12Z1418 +
19	29.12Z1119 +	29.12Z1219 +	29.12Z1319 +	29.12Z1419 +
20	29.12Z1120 +	29.12Z1220 +	29.12Z1320 +	29.12Z1420 +

21	29.12Z1121 +	29.12Z1221 +	29.12Z1321 +	29.12Z1421 +
22	29.12Z1122 +	29.12Z1222 +	29.12Z1322 +	29.12Z1422 +
23	29.12Z1123 +	29.12Z1223 +	29.12Z1323 +	29.12Z1423 +
24	29.12Z1124 +	29.12Z1224 +	29.12Z1324 +	29.12Z1424 +
25	29.12Z1125 +	29.12Z1225 +	29.12Z1325 +	29.12Z1425 +
26	29.12Z1126 +	29.12Z1226 +	29.12Z1326 +	29.12Z1426 +
27	29.12Z1127 +	29.12Z1227 +	29.12Z1327 +	29.12Z1427 +
28	29.12Z1128 +	29.12Z1228 +	29.12Z1328 +	29.12Z1428 +
29	29.12Z1129 +	29.12Z1229 +	29.12Z1329 +	29.12Z1429 +
30	29.12Z1130 +	29.12Z1230 +	29.12Z1330 +	29.12Z1430 +

COSTO DE V1

1 495.35

Día	Lote			
	1	2	3	4
1	495.35V111 +	495.35V121 +	495.35V131 +	495.35V141 +
2	495.35V112 +	495.35V122 +	495.35V132 +	495.35V142 +
3	495.35V113 +	495.35V123 +	495.35V133 +	495.35V143 +
4	495.35V114 +	495.35V124 +	495.35V134 +	495.35V144 +
5	495.35V115 +	495.35V125 +	495.35V135 +	495.35V145 +
6	495.35V116 +	495.35V126 +	495.35V136 +	495.35V146 +
7	495.35V117 +	495.35V127 +	495.35V137 +	495.35V147 +
8	495.35V118 +	495.35V128 +	495.35V138 +	495.35V148 +
9	495.35V119 +	495.35V129 +	495.35V139 +	495.35V149 +
10	495.35V1110 +	495.35V1210 +	495.35V1310 +	495.35V1410 +
11	495.35V1111 +	495.35V1211 +	495.35V1311 +	495.35V1411 +
12	495.35V1112 +	495.35V1212 +	495.35V1312 +	495.35V1412 +
13	495.35V1113 +	495.35V1213 +	495.35V1313 +	495.35V1413 +
14	495.35V1114 +	495.35V1214 +	495.35V1314 +	495.35V1414 +
15	495.35V1115 +	495.35V1215 +	495.35V1315 +	495.35V1415 +
16	495.35V1116 +	495.35V1216 +	495.35V1316 +	495.35V1416 +
17	495.35V1117 +	495.35V1217 +	495.35V1317 +	495.35V1417 +
18	495.35V1118 +	495.35V1218 +	495.35V1318 +	495.35V1418 +
19	495.35V1119 +	495.35V1219 +	495.35V1319 +	495.35V1419 +
20	495.35V1120 +	495.35V1220 +	495.35V1320 +	495.35V1420 +
21	495.35V1121 +	495.35V1221 +	495.35V1321 +	495.35V1421 +
22	495.35V1122 +	495.35V1222 +	495.35V1322 +	495.35V1422 +
23	495.35V1123 +	495.35V1223 +	495.35V1323 +	495.35V1423 +
24	495.35V1124 +	495.35V1224 +	495.35V1324 +	495.35V1424 +
25	495.35V1125 +	495.35V1225 +	495.35V1325 +	495.35V1425 +
26	495.35V1126 +	495.35V1226 +	495.35V1326 +	495.35V1426 +
27	495.35V1127 +	495.35V1227 +	495.35V1327 +	495.35V1427 +
28	495.35V1128 +	495.35V1228 +	495.35V1328 +	495.35V1428 +
29	495.35V1129 +	495.35V1229 +	495.35V1329 +	495.35V1429 +
30	495.35V1130 +	495.35V1230 +	495.35V1330 +	495.35V1430 +

COSTO DE X2

2

345.49

Día	Lote			
	1	2	3	4
1	345.49X211 +	345.49X221 +	345.49X231 +	345.49X241 +
2	345.49X212 +	345.49X222 +	345.49X232 +	345.49X242 +
3	345.49X213 +	345.49X223 +	345.49X233 +	345.49X243 +
4	345.49X214 +	345.49X224 +	345.49X234 +	345.49X244 +
5	345.49X215 +	345.49X225 +	345.49X235 +	345.49X245 +
6	345.49X216 +	345.49X226 +	345.49X236 +	345.49X246 +
7	345.49X217 +	345.49X227 +	345.49X237 +	345.49X247 +
8	345.49X218 +	345.49X228 +	345.49X238 +	345.49X248 +
9	345.49X219 +	345.49X229 +	345.49X239 +	345.49X249 +
10	345.49X2110 +	345.49X2210 +	345.49X2310 +	345.49X2410 +
11	345.49X2111 +	345.49X2211 +	345.49X2311 +	345.49X2411 +
12	345.49X2112 +	345.49X2212 +	345.49X2312 +	345.49X2412 +
13	345.49X2113 +	345.49X2213 +	345.49X2313 +	345.49X2413 +
14	345.49X2114 +	345.49X2214 +	345.49X2314 +	345.49X2414 +
15	345.49X2115 +	345.49X2215 +	345.49X2315 +	345.49X2415 +
16	345.49X2116 +	345.49X2216 +	345.49X2316 +	345.49X2416 +
17	345.49X2117 +	345.49X2217 +	345.49X2317 +	345.49X2417 +
18	345.49X2118 +	345.49X2218 +	345.49X2318 +	345.49X2418 +
19	345.49X2119 +	345.49X2219 +	345.49X2319 +	345.49X2419 +
20	345.49X2120 +	345.49X2220 +	345.49X2320 +	345.49X2420 +
21	345.49X2121 +	345.49X2221 +	345.49X2321 +	345.49X2421 +
22	345.49X2122 +	345.49X2222 +	345.49X2322 +	345.49X2422 +
23	345.49X2123 +	345.49X2223 +	345.49X2323 +	345.49X2423 +
24	345.49X2124 +	345.49X2224 +	345.49X2324 +	345.49X2424 +
25	345.49X2125 +	345.49X2225 +	345.49X2325 +	345.49X2425 +
26	345.49X2126 +	345.49X2226 +	345.49X2326 +	345.49X2426 +
27	345.49X2127 +	345.49X2227 +	345.49X2327 +	345.49X2427 +
28	345.49X2128 +	345.49X2228 +	345.49X2328 +	345.49X2428 +
29	345.49X2129 +	345.49X2229 +	345.49X2329 +	345.49X2429 +
30	345.49X2130 +	345.49X2230 +	345.49X2330 +	345.49X2430 +

COSTO DE Y2

2

1845.98

Día	Lote			
	1	2	3	4
1	1845.98Y211 +	1845.98Y221 +	1845.98Y231 +	1845.98Y241 +
2	1845.98Y212 +	1845.98Y222 +	1845.98Y232 +	1845.98Y242 +
3	1845.98Y213 +	1845.98Y223 +	1845.98Y233 +	1845.98Y243 +
4	1845.98Y214 +	1845.98Y224 +	1845.98Y234 +	1845.98Y244 +
5	1845.98Y215 +	1845.98Y225 +	1845.98Y235 +	1845.98Y245 +
6	1845.98Y216 +	1845.98Y226 +	1845.98Y236 +	1845.98Y246 +

7	1845.98Y217 +	1845.98Y227 +	1845.98Y237 +	1845.98Y247 +
8	1845.98Y218 +	1845.98Y228 +	1845.98Y238 +	1845.98Y248 +
9	1845.98Y219 +	1845.98Y229 +	1845.98Y239 +	1845.98Y249 +
10	1845.98Y2110 +	1845.98Y2210 +	1845.98Y2310 +	1845.98Y2410 +
11	1845.98Y2111 +	1845.98Y2211 +	1845.98Y2311 +	1845.98Y2411 +
12	1845.98Y2112 +	1845.98Y2212 +	1845.98Y2312 +	1845.98Y2412 +
13	1845.98Y2113 +	1845.98Y2213 +	1845.98Y2313 +	1845.98Y2413 +
14	1845.98Y2114 +	1845.98Y2214 +	1845.98Y2314 +	1845.98Y2414 +
15	1845.98Y2115 +	1845.98Y2215 +	1845.98Y2315 +	1845.98Y2415 +
16	1845.98Y2116 +	1845.98Y2216 +	1845.98Y2316 +	1845.98Y2416 +
17	1845.98Y2117 +	1845.98Y2217 +	1845.98Y2317 +	1845.98Y2417 +
18	1845.98Y2118 +	1845.98Y2218 +	1845.98Y2318 +	1845.98Y2418 +
19	1845.98Y2119 +	1845.98Y2219 +	1845.98Y2319 +	1845.98Y2419 +
20	1845.98Y2120 +	1845.98Y2220 +	1845.98Y2320 +	1845.98Y2420 +
21	1845.98Y2121 +	1845.98Y2221 +	1845.98Y2321 +	1845.98Y2421 +
22	1845.98Y2122 +	1845.98Y2222 +	1845.98Y2322 +	1845.98Y2422 +
23	1845.98Y2123 +	1845.98Y2223 +	1845.98Y2323 +	1845.98Y2423 +
24	1845.98Y2124 +	1845.98Y2224 +	1845.98Y2324 +	1845.98Y2424 +
25	1845.98Y2125 +	1845.98Y2225 +	1845.98Y2325 +	1845.98Y2425 +
26	1845.98Y2126 +	1845.98Y2226 +	1845.98Y2326 +	1845.98Y2426 +
27	1845.98Y2127 +	1845.98Y2227 +	1845.98Y2327 +	1845.98Y2427 +
28	1845.98Y2128 +	1845.98Y2228 +	1845.98Y2328 +	1845.98Y2428 +
29	1845.98Y2129 +	1845.98Y2229 +	1845.98Y2329 +	1845.98Y2429 +
30	1845.98Y2130 +	1845.98Y2230 +	1845.98Y2330 +	1845.98Y2430 +

COSTO DE V2

2

6.92

Lote

Día	1	2	3	4
1	6.92V211 +	6.92V221 +	6.92V231 +	6.92V241 +
2	6.92V212 +	6.92V222 +	6.92V232 +	6.92V242 +
3	6.92V213 +	6.92V223 +	6.92V233 +	6.92V243 +
4	6.92V214 +	6.92V224 +	6.92V234 +	6.92V244 +
5	6.92V215 +	6.92V225 +	6.92V235 +	6.92V245 +
6	6.92V216 +	6.92V226 +	6.92V236 +	6.92V246 +
7	6.92V217 +	6.92V227 +	6.92V237 +	6.92V247 +
8	6.92V218 +	6.92V228 +	6.92V238 +	6.92V248 +
9	6.92V219 +	6.92V229 +	6.92V239 +	6.92V249 +
10	6.92V2110 +	6.92V2210 +	6.92V2310 +	6.92V2410 +
11	6.92V2111 +	6.92V2211 +	6.92V2311 +	6.92V2411 +
12	6.92V2112 +	6.92V2212 +	6.92V2312 +	6.92V2412 +
13	6.92V2113 +	6.92V2213 +	6.92V2313 +	6.92V2413 +
14	6.92V2114 +	6.92V2214 +	6.92V2314 +	6.92V2414 +
15	6.92V2115 +	6.92V2215 +	6.92V2315 +	6.92V2415 +
16	6.92V2116 +	6.92V2216 +	6.92V2316 +	6.92V2416 +
17	6.92V2117 +	6.92V2217 +	6.92V2317 +	6.92V2417 +
18	6.92V2118 +	6.92V2218 +	6.92V2318 +	6.92V2418 +
19	6.92V2119 +	6.92V2219 +	6.92V2319 +	6.92V2419 +
20	6.92V2120 +	6.92V2220 +	6.92V2320 +	6.92V2420 +
21	6.92V2121 +	6.92V2221 +	6.92V2321 +	6.92V2421 +
22	6.92V2122 +	6.92V2222 +	6.92V2322 +	6.92V2422 +
23	6.92V2123 +	6.92V2223 +	6.92V2323 +	6.92V2423 +
24	6.92V2124 +	6.92V2224 +	6.92V2324 +	6.92V2424 +
25	6.92V2125 +	6.92V2225 +	6.92V2325 +	6.92V2425 +
26	6.92V2126 +	6.92V2226 +	6.92V2326 +	6.92V2426 +
27	6.92V2127 +	6.92V2227 +	6.92V2327 +	6.92V2427 +
28	6.92V2128 +	6.92V2228 +	6.92V2328 +	6.92V2428 +
29	6.92V2129 +	6.92V2229 +	6.92V2329 +	6.92V2429 +
30	6.92V2130 +	6.92V2230 +	6.92V2330 +	6.92V2430 +

COSTO DE X3

3

709.58

Día	Lote			
	1	2	3	4
1	709.58X311 +	709.58X321 +	709.58X331 +	709.58X341 +
2	709.58X312 +	709.58X322 +	709.58X332 +	709.58X342 +
3	709.58X313 +	709.58X323 +	709.58X333 +	709.58X343 +
4	709.58X314 +	709.58X324 +	709.58X334 +	709.58X344 +
5	709.58X315 +	709.58X325 +	709.58X335 +	709.58X345 +
6	709.58X316 +	709.58X326 +	709.58X336 +	709.58X346 +
7	709.58X317 +	709.58X327 +	709.58X337 +	709.58X347 +
8	709.58X318 +	709.58X328 +	709.58X338 +	709.58X348 +
9	709.58X319 +	709.58X329 +	709.58X339 +	709.58X349 +
10	709.58X3110 +	709.58X3210 +	709.58X3310 +	709.58X3410 +
11	709.58X3111 +	709.58X3211 +	709.58X3311 +	709.58X3411 +
12	709.58X3112 +	709.58X3212 +	709.58X3312 +	709.58X3412 +
13	709.58X3113 +	709.58X3213 +	709.58X3313 +	709.58X3413 +
14	709.58X3114 +	709.58X3214 +	709.58X3314 +	709.58X3414 +
15	709.58X3115 +	709.58X3215 +	709.58X3315 +	709.58X3415 +
16	709.58X3116 +	709.58X3216 +	709.58X3316 +	709.58X3416 +
17	709.58X3117 +	709.58X3217 +	709.58X3317 +	709.58X3417 +
18	709.58X3118 +	709.58X3218 +	709.58X3318 +	709.58X3418 +
19	709.58X3119 +	709.58X3219 +	709.58X3319 +	709.58X3419 +
20	709.58X3120 +	709.58X3220 +	709.58X3320 +	709.58X3420 +
21	709.58X3121 +	709.58X3221 +	709.58X3321 +	709.58X3421 +
22	709.58X3122 +	709.58X3222 +	709.58X3322 +	709.58X3422 +
23	709.58X3123 +	709.58X3223 +	709.58X3323 +	709.58X3423 +
24	709.58X3124 +	709.58X3224 +	709.58X3324 +	709.58X3424 +
25	709.58X3125 +	709.58X3225 +	709.58X3325 +	709.58X3425 +
26	709.58X3126 +	709.58X3226 +	709.58X3326 +	709.58X3426 +
27	709.58X3127 +	709.58X3227 +	709.58X3327 +	709.58X3427 +
28	709.58X3128 +	709.58X3228 +	709.58X3328 +	709.58X3428 +
29	709.58X3129 +	709.58X3229 +	709.58X3329 +	709.58X3429 +
30	709.58X3130 +	709.58X3230 +	709.58X3330 +	709.58X3430 +

COSTO DE Y3

3

4039.36

Día	Lote			
	1	2	3	4
1	4039.36Y311 +	4039.36Y321 +	4039.36Y331 +	4039.36Y341 +
2	4039.36Y312 +	4039.36Y322 +	4039.36Y332 +	4039.36Y342 +
3	4039.36Y313 +	4039.36Y323 +	4039.36Y333 +	4039.36Y343 +
4	4039.36Y314 +	4039.36Y324 +	4039.36Y334 +	4039.36Y344 +
5	4039.36Y315 +	4039.36Y325 +	4039.36Y335 +	4039.36Y345 +
6	4039.36Y316 +	4039.36Y326 +	4039.36Y336 +	4039.36Y346 +

MIN

345.49X111 + 345.49X121 + 345.49X131 + 345.49X141 + 345.49X211 + 345.49X221 + 345.49X231 +
345.49X112 + 345.49X122 + 345.49X132 + 345.49X142 + 345.49X212 + 345.49X222 + 345.49X232 +
345.49X113 + 345.49X123 + 345.49X133 + 345.49X143 + 345.49X213 + 345.49X223 + 345.49X233 +
345.49X114 + 345.49X124 + 345.49X134 + 345.49X144 + 345.49X214 + 345.49X224 + 345.49X234 +
345.49X115 + 345.49X125 + 345.49X135 + 345.49X145 + 345.49X215 + 345.49X225 + 345.49X235 +
345.49X116 + 345.49X126 + 345.49X136 + 345.49X146 + 345.49X216 + 345.49X226 + 345.49X236 +
345.49X117 + 345.49X127 + 345.49X137 + 345.49X147 + 345.49X217 + 345.49X227 + 345.49X237 +
345.49X118 + 345.49X128 + 345.49X138 + 345.49X148 + 345.49X218 + 345.49X228 + 345.49X238 +
345.49X119 + 345.49X129 + 345.49X139 + 345.49X149 + 345.49X219 + 345.49X229 + 345.49X239 +
345.49X1110 345.49X1210 345.49X1310 345.49X1410 345.49X2110 345.49X2210 345.49X2310
345.49X1111 345.49X1211 345.49X1311 345.49X1411 345.49X2111 345.49X2211 345.49X2311
345.49X1112 345.49X1212 345.49X1312 345.49X1412 345.49X2112 345.49X2212 345.49X2312
345.49X1113 345.49X1213 345.49X1313 345.49X1413 345.49X2113 345.49X2213 345.49X2313
345.49X1114 345.49X1214 345.49X1314 345.49X1414 345.49X2114 345.49X2214 345.49X2314
345.49X1115 345.49X1215 345.49X1315 345.49X1415 345.49X2115 345.49X2215 345.49X2315
345.49X1116 345.49X1216 345.49X1316 345.49X1416 345.49X2116 345.49X2216 345.49X2316
345.49X1117 345.49X1217 345.49X1317 345.49X1417 345.49X2117 345.49X2217 345.49X2317
345.49X1118 345.49X1218 345.49X1318 345.49X1418 345.49X2118 345.49X2218 345.49X2318
345.49X1119 345.49X1219 345.49X1319 345.49X1419 345.49X2119 345.49X2219 345.49X2319
345.49X1120 345.49X1220 345.49X1320 345.49X1420 345.49X2120 345.49X2220 345.49X2320
345.49X1121 345.49X1221 345.49X1321 345.49X1421 345.49X2121 345.49X2221 345.49X2321
345.49X1122 345.49X1222 345.49X1322 345.49X1422 345.49X2122 345.49X2222 345.49X2322
345.49X1123 345.49X1223 345.49X1323 345.49X1423 345.49X2123 345.49X2223 345.49X2323
345.49X1124 345.49X1224 345.49X1324 345.49X1424 345.49X2124 345.49X2224 345.49X2324
345.49X1125 345.49X1225 345.49X1325 345.49X1425 345.49X2125 345.49X2225 345.49X2325
345.49X1126 345.49X1226 345.49X1326 345.49X1426 345.49X2126 345.49X2226 345.49X2326
345.49X1127 345.49X1227 345.49X1327 345.49X1427 345.49X2127 345.49X2227 345.49X2327
345.49X1128 345.49X1228 345.49X1328 345.49X1428 345.49X2128 345.49X2228 345.49X2328
345.49X1129 345.49X1229 345.49X1329 345.49X1429 345.49X2129 345.49X2229 345.49X2329
345.49X1130 345.49X1230 345.49X1330 345.49X1430 345.49X2130 345.49X2230 345.49X2330
1845.98Y111 · 1845.98Y121 · 1845.98Y131 · 1845.98Y141 · 1845.98Y211 · 1845.98Y221 · 1845.98Y231 ·
1845.98Y112 · 1845.98Y122 · 1845.98Y132 · 1845.98Y142 · 1845.98Y212 · 1845.98Y222 · 1845.98Y232 ·
1845.98Y113 · 1845.98Y123 · 1845.98Y133 · 1845.98Y143 · 1845.98Y213 · 1845.98Y223 · 1845.98Y233 ·
1845.98Y114 · 1845.98Y124 · 1845.98Y134 · 1845.98Y144 · 1845.98Y214 · 1845.98Y224 · 1845.98Y234 ·
1845.98Y115 · 1845.98Y125 · 1845.98Y135 · 1845.98Y145 · 1845.98Y215 · 1845.98Y225 · 1845.98Y235 ·
1845.98Y116 · 1845.98Y126 · 1845.98Y136 · 1845.98Y146 · 1845.98Y216 · 1845.98Y226 · 1845.98Y236 ·
1845.98Y117 · 1845.98Y127 · 1845.98Y137 · 1845.98Y147 · 1845.98Y217 · 1845.98Y227 · 1845.98Y237 ·
1845.98Y118 · 1845.98Y128 · 1845.98Y138 · 1845.98Y148 · 1845.98Y218 · 1845.98Y228 · 1845.98Y238 ·
1845.98Y119 · 1845.98Y129 · 1845.98Y139 · 1845.98Y149 · 1845.98Y219 · 1845.98Y229 · 1845.98Y239 ·
1845.98Y1110 1845.98Y1210 1845.98Y1310 1845.98Y1410 1845.98Y2110 1845.98Y2210 1845.98Y2310
1845.98Y1111 1845.98Y1211 1845.98Y1311 1845.98Y1411 1845.98Y2111 1845.98Y2211 1845.98Y2311
1845.98Y1112 1845.98Y1212 1845.98Y1312 1845.98Y1412 1845.98Y2112 1845.98Y2212 1845.98Y2312
1845.98Y1113 1845.98Y1213 1845.98Y1313 1845.98Y1413 1845.98Y2113 1845.98Y2213 1845.98Y2313
1845.98Y1114 1845.98Y1214 1845.98Y1314 1845.98Y1414 1845.98Y2114 1845.98Y2214 1845.98Y2314
1845.98Y1115 1845.98Y1215 1845.98Y1315 1845.98Y1415 1845.98Y2115 1845.98Y2215 1845.98Y2315
1845.98Y1116 1845.98Y1216 1845.98Y1316 1845.98Y1416 1845.98Y2116 1845.98Y2216 1845.98Y2316
1845.98Y1117 1845.98Y1217 1845.98Y1317 1845.98Y1417 1845.98Y2117 1845.98Y2217 1845.98Y2317
1845.98Y1118 1845.98Y1218 1845.98Y1318 1845.98Y1418 1845.98Y2118 1845.98Y2218 1845.98Y2318
1845.98Y1119 1845.98Y1219 1845.98Y1319 1845.98Y1419 1845.98Y2119 1845.98Y2219 1845.98Y2319
1845.98Y1120 1845.98Y1220 1845.98Y1320 1845.98Y1420 1845.98Y2120 1845.98Y2220 1845.98Y2320
1845.98Y1121 1845.98Y1221 1845.98Y1321 1845.98Y1421 1845.98Y2121 1845.98Y2221 1845.98Y2321
1845.98Y1122 1845.98Y1222 1845.98Y1322 1845.98Y1422 1845.98Y2122 1845.98Y2222 1845.98Y2322
1845.98Y1123 1845.98Y1223 1845.98Y1323 1845.98Y1423 1845.98Y2123 1845.98Y2223 1845.98Y2323
1845.98Y1124 1845.98Y1224 1845.98Y1324 1845.98Y1424 1845.98Y2124 1845.98Y2224 1845.98Y2324
1845.98Y1125 1845.98Y1225 1845.98Y1325 1845.98Y1425 1845.98Y2125 1845.98Y2225 1845.98Y2325
1845.98Y1126 1845.98Y1226 1845.98Y1326 1845.98Y1426 1845.98Y2126 1845.98Y2226 1845.98Y2326
1845.98Y1127 1845.98Y1227 1845.98Y1327 1845.98Y1427 1845.98Y2127 1845.98Y2227 1845.98Y2327
1845.98Y1128 1845.98Y1228 1845.98Y1328 1845.98Y1428 1845.98Y2128 1845.98Y2228 1845.98Y2328
1845.98Y1129 1845.98Y1229 1845.98Y1329 1845.98Y1429 1845.98Y2129 1845.98Y2229 1845.98Y2329
1845.98Y1130 1845.98Y1230 1845.98Y1330 1845.98Y1430 1845.98Y2130 1845.98Y2230 1845.98Y2330
1845.98Y1131 1845.98Y1231 1845.98Y1331 1845.98Y1431 1845.98Y2131 1845.98Y2231 1845.98Y2331
1845.98Y1132 1845.98Y1232 1845.98Y1332 1845.98Y1432 1845.98Y2132 1845.98Y2232 1845.98Y2332
1845.98Y1133 1845.98Y1233 1845.98Y1333 1845.98Y1433 1845.98Y2133 1845.98Y2233 1845.98Y2333
1845.98Y1134 1845.98Y1234 1845.98Y1334 1845.98Y1434 1845.98Y2134 1845.98Y2234 1845.98Y2334
1845.98Y1135 1845.98Y1235 1845.98Y1335 1845.98Y1435 1845.98Y2135 1845.98Y2235 1845.98Y2335
1845.98Y1136 1845.98Y1236 1845.98Y1336 1845.98Y1436 1845.98Y2136 1845.98Y2236 1845.98Y2336
1845.98Y1137 1845.98Y1237 1845.98Y1337 1845.98Y1437 1845.98Y2137 1845.98Y2237 1845.98Y2337
1845.98Y1138 1845.98Y1238 1845.98Y1338 1845.98Y1438 1845.98Y2138 1845.98Y2238 1845.98Y2338
1845.98Y1139 1845.98Y1239 1845.98Y1339 1845.98Y1439 1845.98Y2139 1845.98Y2239 1845.98Y2339
1845.98Y1140 1845.98Y1240 1845.98Y1340 1845.98Y1440 1845.98Y2140 1845.98Y2240 1845.98Y2340
1845.98Y1141 1845.98Y1241 1845.98Y1341 1845.98Y1441 1845.98Y2141 1845.98Y2241 1845.98Y2341
1845.98Y1142 1845.98Y1242 1845.98Y1342 1845.98Y1442 1845.98Y2142 1845.98Y2242 1845.98Y2342
1845.98Y1143 1845.98Y1243 1845.98Y1343 1845.98Y1443 1845.98Y2143 1845.98Y2243 1845.98Y2343
1845.98Y1144 1845.98Y1244 1845.98Y1344 1845.98Y1444 1845.98Y2144 1845.98Y2244 1845.98Y2344
1845.98Y1145 1845.98Y1245 1845.98Y1345 1845.98Y1445 1845.98Y2145 1845.98Y2245 1845.98Y2345
1845.98Y1146 1845.98Y1246 1845.98Y1346 1845.98Y1446 1845.98Y2146 1845.98Y2246 1845.98Y2346
1845.98Y1147 1845.98Y1247 1845.98Y1347 1845.98Y1447 1845.98Y2147 1845.98Y2247 1845.98Y2347
1845.98Y1148 1845.98Y1248 1845.98Y1348 1845.98Y1448 1845.98Y2148 1845.98Y2248 1845.98Y2348
1845.98Y1149 1845.98Y1249 1845.98Y1349 1845.98Y1449 1845.98Y2149 1845.98Y2249 1845.98Y2349
1845.98Y1150 1845.98Y1250 1845.98Y1350 1845.98Y1450 1845.98Y2150 1845.98Y2250 1845.98Y2350

1845.98Y111€ 1845.98Y121€ 1845.98Y131€ 1845.98Y141€ 1845.98Y211€ 1845.98Y221€ 1845.98Y231€
 1845.98Y112€ 1845.98Y122€ 1845.98Y132€ 1845.98Y142€ 1845.98Y212€ 1845.98Y222€ 1845.98Y232€
 1845.98Y1121 1845.98Y1221 1845.98Y1321 1845.98Y1421 1845.98Y2121 1845.98Y2221 1845.98Y2321
 1845.98Y1122 1845.98Y1222 1845.98Y1322 1845.98Y1422 1845.98Y2122 1845.98Y2222 1845.98Y2322
 1845.98Y1123 1845.98Y1223 1845.98Y1323 1845.98Y1423 1845.98Y2123 1845.98Y2223 1845.98Y2323
 1845.98Y1124 1845.98Y1224 1845.98Y1324 1845.98Y1424 1845.98Y2124 1845.98Y2224 1845.98Y2324
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 1845.98Y1126 1845.98Y1226 1845.98Y1326 1845.98Y1426 1845.98Y2126 1845.98Y2226 1845.98Y2326
 1845.98Y1127 1845.98Y1227 1845.98Y1327 1845.98Y1427 1845.98Y2127 1845.98Y2227 1845.98Y2327
 1845.98Y1128 1845.98Y1228 1845.98Y1328 1845.98Y1428 1845.98Y2128 1845.98Y2228 1845.98Y2328
 1845.98Y1129 1845.98Y1229 1845.98Y1329 1845.98Y1429 1845.98Y2129 1845.98Y2229 1845.98Y2329
 1845.98Y1130 1845.98Y1230 1845.98Y1330 1845.98Y1430 1845.98Y2130 1845.98Y2230 1845.98Y2330
 29.12Z111 + 29.12Z121 + 29.12Z131 + 29.12Z141 +
 29.12Z112 + 29.12Z122 + 29.12Z132 + 29.12Z142 +
 29.12Z113 + 29.12Z123 + 29.12Z133 + 29.12Z143 +
 29.12Z114 + 29.12Z124 + 29.12Z134 + 29.12Z144 +
 29.12Z115 + 29.12Z125 + 29.12Z135 + 29.12Z145 +
 29.12Z116 + 29.12Z126 + 29.12Z136 + 29.12Z146 +
 29.12Z117 + 29.12Z127 + 29.12Z137 + 29.12Z147 +
 29.12Z118 + 29.12Z128 + 29.12Z138 + 29.12Z148 +
 29.12Z119 + 29.12Z129 + 29.12Z139 + 29.12Z149 +
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 29.12Z1114 + 29.12Z1214 + 29.12Z1314 + 29.12Z1414 +
 29.12Z1115 + 29.12Z1215 + 29.12Z1315 + 29.12Z1415 +
 29.12Z1116 + 29.12Z1216 + 29.12Z1316 + 29.12Z1416 +
 29.12Z1117 + 29.12Z1217 + 29.12Z1317 + 29.12Z1417 +
 29.12Z1118 + 29.12Z1218 + 29.12Z1318 + 29.12Z1418 +
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 29.12Z1120 + 29.12Z1220 + 29.12Z1320 + 29.12Z1420 +
 29.12Z1121 + 29.12Z1221 + 29.12Z1321 + 29.12Z1421 +
 29.12Z1122 + 29.12Z1222 + 29.12Z1322 + 29.12Z1422 +
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 29.12Z1127 + 29.12Z1227 + 29.12Z1327 + 29.12Z1427 +
 29.12Z1128 + 29.12Z1228 + 29.12Z1328 + 29.12Z1428 +
 29.12Z1129 + 29.12Z1229 + 29.12Z1329 + 29.12Z1429 +
 29.12Z1130 + 29.12Z1230 + 29.12Z1330 + 29.12Z1430 +
 495.35V111 + 495.35V121 + 495.35V131 + 495.35V141 + 6.92V211 + 6.92V221 + 6.92V231 +
 495.35V112 + 495.35V122 + 495.35V132 + 495.35V142 + 6.92V212 + 6.92V222 + 6.92V232 +
 495.35V113 + 495.35V123 + 495.35V133 + 495.35V143 + 6.92V213 + 6.92V223 + 6.92V233 +
 495.35V114 + 495.35V124 + 495.35V134 + 495.35V144 + 6.92V214 + 6.92V224 + 6.92V234 +
 495.35V115 + 495.35V125 + 495.35V135 + 495.35V145 + 6.92V215 + 6.92V225 + 6.92V235 +
 495.35V116 + 495.35V126 + 495.35V136 + 495.35V146 + 6.92V216 + 6.92V226 + 6.92V236 +
 495.35V117 + 495.35V127 + 495.35V137 + 495.35V147 + 6.92V217 + 6.92V227 + 6.92V237 +
 495.35V118 + 495.35V128 + 495.35V138 + 495.35V148 + 6.92V218 + 6.92V228 + 6.92V238 +

495.35V119 + 495.35V129 + 495.35V139 + 495.35V149 + 6.92V219 + 6.92V229 + 6.92V239 +
 495.35V1110 495.35V1210 495.35V1310 495.35V1410 6.92V2110 + 6.92V2210 + 6.92V2310 +
 495.35V1111 495.35V1211 495.35V1311 495.35V1411 6.92V2111 + 6.92V2211 + 6.92V2311 +
 495.35V1112 495.35V1212 495.35V1312 495.35V1412 6.92V2112 + 6.92V2212 + 6.92V2312 +
 495.35V1113 495.35V1213 495.35V1313 495.35V1413 6.92V2113 + 6.92V2213 + 6.92V2313 +
 495.35V1114 495.35V1214 495.35V1314 495.35V1414 6.92V2114 + 6.92V2214 + 6.92V2314 +
 495.35V1115 495.35V1215 495.35V1315 495.35V1415 6.92V2115 + 6.92V2215 + 6.92V2315 +
 495.35V1116 495.35V1216 495.35V1316 495.35V1416 6.92V2116 + 6.92V2216 + 6.92V2316 +
 495.35V1117 495.35V1217 495.35V1317 495.35V1417 6.92V2117 + 6.92V2217 + 6.92V2317 +
 495.35V1118 495.35V1218 495.35V1318 495.35V1418 6.92V2118 + 6.92V2218 + 6.92V2318 +
 495.35V1119 495.35V1219 495.35V1319 495.35V1419 6.92V2119 + 6.92V2219 + 6.92V2319 +
 495.35V1120 495.35V1220 495.35V1320 495.35V1420 6.92V2120 + 6.92V2220 + 6.92V2320 +
 495.35V1121 495.35V1221 495.35V1321 495.35V1421 6.92V2121 + 6.92V2221 + 6.92V2321 +
 495.35V1122 495.35V1222 495.35V1322 495.35V1422 6.92V2122 + 6.92V2222 + 6.92V2322 +
 495.35V1123 495.35V1223 495.35V1323 495.35V1423 6.92V2123 + 6.92V2223 + 6.92V2323 +
 495.35V1124 495.35V1224 495.35V1324 495.35V1424 6.92V2124 + 6.92V2224 + 6.92V2324 +
 495.35V1125 495.35V1225 495.35V1325 495.35V1425 6.92V2125 + 6.92V2225 + 6.92V2325 +
 495.35V1126 495.35V1226 495.35V1326 495.35V1426 6.92V2126 + 6.92V2226 + 6.92V2326 +
 495.35V1127 495.35V1227 495.35V1327 495.35V1427 6.92V2127 + 6.92V2227 + 6.92V2327 +
 495.35V1128 495.35V1228 495.35V1328 495.35V1428 6.92V2128 + 6.92V2228 + 6.92V2328 +
 495.35V1129 495.35V1229 495.35V1329 495.35V1429 6.92V2129 + 6.92V2229 + 6.92V2329 +
 495.35V1130 495.35V1230 495.35V1330 495.35V1430 6.92V2130 + 6.92V2230 + 6.92V2330 +

ST

X111 +	X211 +	X311 +	X411 +	Y111 +	Y211 +	Y311 +
X121 +	X221 +	X321 +	X421 +	Y121 +	Y221 +	Y321 +
X131 +	X231 +	X331 +	X431 +	Y131 +	Y231 +	Y331 +
X141 +	X241 +	X341 +	X441 +	Y141 +	Y241 +	Y341 +
X112 +	X212 +	X312 +	X412 +	Y112 +	Y212 +	Y312 +
X122 +	X222 +	X322 +	X422 +	Y122 +	Y222 +	Y322 +
X132 +	X232 +	X332 +	X432 +	Y132 +	Y232 +	Y332 +
X142 +	X242 +	X342 +	X442 +	Y142 +	Y242 +	Y342 +
X113 +	X213 +	X313 +	X413 +	Y113 +	Y213 +	Y313 +
X123 +	X223 +	X323 +	X423 +	Y123 +	Y223 +	Y323 +
X133 +	X233 +	X333 +	X433 +	Y133 +	Y233 +	Y333 +
X143 +	X243 +	X343 +	X443 +	Y143 +	Y243 +	Y343 +
X114 +	X214 +	X314 +	X414 +	Y114 +	Y214 +	Y314 +
X124 +	X224 +	X324 +	X424 +	Y124 +	Y224 +	Y324 +
X134 +	X234 +	X334 +	X434 +	Y134 +	Y234 +	Y334 +
X144 +	X244 +	X344 +	X444 +	Y144 +	Y244 +	Y344 +
X115 +	X215 +	X315 +	X415 +	Y115 +	Y215 +	Y315 +
X125 +	X225 +	X325 +	X425 +	Y125 +	Y225 +	Y325 +
X135 +	X235 +	X335 +	X435 +	Y135 +	Y235 +	Y335 +
X145 +	X245 +	X345 +	X445 +	Y145 +	Y245 +	Y345 +
X116 +	X216 +	X316 +	X416 +	Y116 +	Y216 +	Y316 +
X126 +	X226 +	X326 +	X426 +	Y126 +	Y226 +	Y326 +
X136 +	X236 +	X336 +	X436 +	Y136 +	Y236 +	Y336 +
X146 +	X246 +	X346 +	X446 +	Y146 +	Y246 +	Y346 +

X117 +	X217 +	X317 +	X417 +	Y117 +	Y217 +	Y317 +
X127 +	X227 +	X327 +	X427 +	Y127 +	Y227 +	Y327 +
X137 +	X237 +	X337 +	X437 +	Y137 +	Y237 +	Y337 +
X147 +	X247 +	X347 +	X447 +	Y147 +	Y247 +	Y347 +
X118 +	X218 +	X318 +	X418 +	Y118 +	Y218 +	Y318 +
X128 +	X228 +	X328 +	X428 +	Y128 +	Y228 +	Y328 +
X138 +	X238 +	X338 +	X438 +	Y138 +	Y238 +	Y338 +
X148 +	X248 +	X348 +	X448 +	Y148 +	Y248 +	Y348 +
X119 +	X219 +	X319 +	X419 +	Y119 +	Y219 +	Y319 +
X129 +	X229 +	X329 +	X429 +	Y129 +	Y229 +	Y329 +
X139 +	X239 +	X339 +	X439 +	Y139 +	Y239 +	Y339 +
X149 +	X249 +	X349 +	X449 +	Y149 +	Y249 +	Y349 +
X1110 +	X2110 +	X3110 +	X4110 +	Y1110 +	Y2110 +	Y3110 +
X1210 +	X2210 +	X3210 +	X4210 +	Y1210 +	Y2210 +	Y3210 +
X1310 +	X2310 +	X3310 +	X4310 +	Y1310 +	Y2310 +	Y3310 +
X1410 +	X2410 +	X3410 +	X4410 +	Y1410 +	Y2410 +	Y3410 +
X1111 +	X2111 +	X3111 +	X4111 +	Y1111 +	Y2111 +	Y3111 +
X1211 +	X2211 +	X3211 +	X4211 +	Y1211 +	Y2211 +	Y3211 +
X1311 +	X2311 +	X3311 +	X4311 +	Y1311 +	Y2311 +	Y3311 +
X1411 +	X2411 +	X3411 +	X4411 +	Y1411 +	Y2411 +	Y3411 +
X1112 +	X2112 +	X3112 +	X4112 +	Y1112 +	Y2112 +	Y3112 +
X1212 +	X2212 +	X3212 +	X4212 +	Y1212 +	Y2212 +	Y3212 +
X1312 +	X2312 +	X3312 +	X4312 +	Y1312 +	Y2312 +	Y3312 +
X1412 +	X2412 +	X3412 +	X4412 +	Y1412 +	Y2412 +	Y3412 +
X1113 +	X2113 +	X3113 +	X4113 +	Y1113 +	Y2113 +	Y3113 +
X1213 +	X2213 +	X3213 +	X4213 +	Y1213 +	Y2213 +	Y3213 +
X1313 +	X2313 +	X3313 +	X4313 +	Y1313 +	Y2313 +	Y3313 +
X1413 +	X2413 +	X3413 +	X4413 +	Y1413 +	Y2413 +	Y3413 +
X1114 +	X2114 +	X3114 +	X4114 +	Y1114 +	Y2114 +	Y3114 +
X1214 +	X2214 +	X3214 +	X4214 +	Y1214 +	Y2214 +	Y3214 +
X1314 +	X2314 +	X3314 +	X4314 +	Y1314 +	Y2314 +	Y3314 +
X1414 +	X2414 +	X3414 +	X4414 +	Y1414 +	Y2414 +	Y3414 +
X1115 +	X2115 +	X3115 +	X4115 +	Y1115 +	Y2115 +	Y3115 +
X1215 +	X2215 +	X3215 +	X4215 +	Y1215 +	Y2215 +	Y3215 +
X1315 +	X2315 +	X3315 +	X4315 +	Y1315 +	Y2315 +	Y3315 +
X1415 +	X2415 +	X3415 +	X4415 +	Y1415 +	Y2415 +	Y3415 +
X1116 +	X2116 +	X3116 +	X4116 +	Y1116 +	Y2116 +	Y3116 +
X1216 +	X2216 +	X3216 +	X4216 +	Y1216 +	Y2216 +	Y3216 +
X1316 +	X2316 +	X3316 +	X4316 +	Y1316 +	Y2316 +	Y3316 +
X1416 +	X2416 +	X3416 +	X4416 +	Y1416 +	Y2416 +	Y3416 +
X1117 +	X2117 +	X3117 +	X4117 +	Y1117 +	Y2117 +	Y3117 +
X1217 +	X2217 +	X3217 +	X4217 +	Y1217 +	Y2217 +	Y3217 +
X1317 +	X2317 +	X3317 +	X4317 +	Y1317 +	Y2317 +	Y3317 +
X1417 +	X2417 +	X3417 +	X4417 +	Y1417 +	Y2417 +	Y3417 +
X1118 +	X2118 +	X3118 +	X4118 +	Y1118 +	Y2118 +	Y3118 +
X1218 +	X2218 +	X3218 +	X4218 +	Y1218 +	Y2218 +	Y3218 +
X1318 +	X2318 +	X3318 +	X4318 +	Y1318 +	Y2318 +	Y3318 +
X1418 +	X2418 +	X3418 +	X4418 +	Y1418 +	Y2418 +	Y3418 +
X1119 +	X2119 +	X3119 +	X4119 +	Y1119 +	Y2119 +	Y3119 +
X1219 +	X2219 +	X3219 +	X4219 +	Y1219 +	Y2219 +	Y3219 +

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X1419 +	X2419 +	X3419 +	X4419 +	Y1419 +	Y2419 +	Y3419 +
X1120 +	X2120 +	X3120 +	X4120 +	Y1120 +	Y2120 +	Y3120 +
X1220 +	X2220 +	X3220 +	X4220 +	Y1220 +	Y2220 +	Y3220 +
X1320 +	X2320 +	X3320 +	X4320 +	Y1320 +	Y2320 +	Y3320 +
X1420 +	X2420 +	X3420 +	X4420 +	Y1420 +	Y2420 +	Y3420 +
X1121 +	X2121 +	X3121 +	X4121 +	Y1121 +	Y2121 +	Y3121 +
X1221 +	X2221 +	X3221 +	X4221 +	Y1221 +	Y2221 +	Y3221 +
X1321 +	X2321 +	X3321 +	X4321 +	Y1321 +	Y2321 +	Y3321 +
X1421 +	X2421 +	X3421 +	X4421 +	Y1421 +	Y2421 +	Y3421 +
X1122 +	X2122 +	X3122 +	X4122 +	Y1122 +	Y2122 +	Y3122 +
X1222 +	X2222 +	X3222 +	X4222 +	Y1222 +	Y2222 +	Y3222 +
X1322 +	X2322 +	X3322 +	X4322 +	Y1322 +	Y2322 +	Y3322 +
X1422 +	X2422 +	X3422 +	X4422 +	Y1422 +	Y2422 +	Y3422 +
X1123 +	X2123 +	X3123 +	X4123 +	Y1123 +	Y2123 +	Y3123 +
X1223 +	X2223 +	X3223 +	X4223 +	Y1223 +	Y2223 +	Y3223 +
X1323 +	X2323 +	X3323 +	X4323 +	Y1323 +	Y2323 +	Y3323 +
X1423 +	X2423 +	X3423 +	X4423 +	Y1423 +	Y2423 +	Y3423 +
X1124 +	X2124 +	X3124 +	X4124 +	Y1124 +	Y2124 +	Y3124 +
X1224 +	X2224 +	X3224 +	X4224 +	Y1224 +	Y2224 +	Y3224 +
X1324 +	X2324 +	X3324 +	X4324 +	Y1324 +	Y2324 +	Y3324 +
X1424 +	X2424 +	X3424 +	X4424 +	Y1424 +	Y2424 +	Y3424 +
X1125 +	X2125 +	X3125 +	X4125 +	Y1125 +	Y2125 +	Y3125 +
X1225 +	X2225 +	X3225 +	X4225 +	Y1225 +	Y2225 +	Y3225 +
X1325 +	X2325 +	X3325 +	X4325 +	Y1325 +	Y2325 +	Y3325 +
X1425 +	X2425 +	X3425 +	X4425 +	Y1425 +	Y2425 +	Y3425 +
X1126 +	X2126 +	X3126 +	X4126 +	Y1126 +	Y2126 +	Y3126 +
X1226 +	X2226 +	X3226 +	X4226 +	Y1226 +	Y2226 +	Y3226 +
X1326 +	X2326 +	X3326 +	X4326 +	Y1326 +	Y2326 +	Y3326 +
X1426 +	X2426 +	X3426 +	X4426 +	Y1426 +	Y2426 +	Y3426 +
X1127 +	X2127 +	X3127 +	X4127 +	Y1127 +	Y2127 +	Y3127 +
X1227 +	X2227 +	X3227 +	X4227 +	Y1227 +	Y2227 +	Y3227 +
X1327 +	X2327 +	X3327 +	X4327 +	Y1327 +	Y2327 +	Y3327 +
X1427 +	X2427 +	X3427 +	X4427 +	Y1427 +	Y2427 +	Y3427 +
X1128 +	X2128 +	X3128 +	X4128 +	Y1128 +	Y2128 +	Y3128 +
X1228 +	X2228 +	X3228 +	X4228 +	Y1228 +	Y2228 +	Y3228 +
X1328 +	X2328 +	X3328 +	X4328 +	Y1328 +	Y2328 +	Y3328 +
X1428 +	X2428 +	X3428 +	X4428 +	Y1428 +	Y2428 +	Y3428 +
X1129 +	X2129 +	X3129 +	X4129 +	Y1129 +	Y2129 +	Y3129 +
X1229 +	X2229 +	X3229 +	X4229 +	Y1229 +	Y2229 +	Y3229 +
X1329 +	X2329 +	X3329 +	X4329 +	Y1329 +	Y2329 +	Y3329 +
X1429 +	X2429 +	X3429 +	X4429 +	Y1429 +	Y2429 +	Y3429 +
X1130 +	X2130 +	X3130 +	X4130 +	Y1130 +	Y2130 +	Y3130 +
X1230 +	X2230 +	X3230 +	X4230 +	Y1230 +	Y2230 +	Y3230 +
X1330 +	X2330 +	X3330 +	X4330 +	Y1330 +	Y2330 +	Y3330 +
X1430 +	X2430 +	X3430 +	X4430 +	Y1430 +	Y2430 +	Y3430 +

N11	<	130
N21	<	130
N31	<	130

Global optimal solution found.

Objective value: 0.1978859E+08
Total solver iterations: 392

Variable	Value	Reduced Cost
X111	10.75501	0.000000
X121	10.75501	0.000000
X131	10.75501	0.000000
X141	10.75501	0.000000
X211	3.961024	0.000000
X221	3.961024	0.000000
X231	3.961024	0.000000
X241	3.961024	0.000000
X311	0.1724660	0.000000
X321	0.1724660	0.000000
X331	0.1724660	0.000000
X341	0.1724660	0.000000
X411	1.705498	0.000000
X421	1.705498	0.000000
X431	1.705498	0.000000
X441	1.705498	0.000000
X112	10.75501	0.000000
X122	10.75501	0.000000
X132	10.75501	0.000000
X142	10.75501	0.000000
X212	3.961024	0.000000
X222	3.961024	0.000000
X232	3.961024	0.000000
X242	3.961024	0.000000
X312	0.1724660	0.000000
X322	0.1724660	0.000000
X332	0.1724660	0.000000
X342	0.1724660	0.000000
X412	1.705498	0.000000
X422	1.705498	0.000000
X432	1.705498	0.000000
X442	1.705498	0.000000
X113	10.75501	0.000000
X123	10.75501	0.000000
X133	10.75501	0.000000
X143	10.75501	0.000000
X213	3.961024	0.000000
X223	3.961024	0.000000
X233	3.961024	0.000000
X243	3.961024	0.000000
X313	0.1724660	0.000000
X323	0.1724660	0.000000
X333	0.1724660	0.000000
X343	0.1724660	0.000000

X413	1.705498	0.000000
X423	1.705498	0.000000
X433	1.705498	0.000000
X443	1.705498	0.000000
X114	10.75501	0.000000
X124	10.75501	0.000000
X134	10.75501	0.000000
X144	10.75501	0.000000
X214	3.961024	0.000000
X224	3.961024	0.000000
X234	3.961024	0.000000
X244	3.961024	0.000000
X314	0.1724660	0.000000
X324	0.1724660	0.000000
X334	0.1724660	0.000000
X344	0.1724660	0.000000
X414	1.705498	0.000000
X424	1.705498	0.000000
X434	1.705498	0.000000
X444	1.705498	0.000000
X115	10.95250	0.000000
X125	10.95250	0.000000
X135	10.95250	0.000000
X145	10.95250	0.000000
X215	4.033756	0.000000
X225	4.033756	0.000000
X235	4.033756	0.000000
X245	4.033756	0.000000
X315	0.1756329	0.000000
X325	0.1756329	0.000000
X335	0.1756329	0.000000
X345	0.1756329	0.000000
X415	1.736814	0.000000
X425	1.736814	0.000000
X435	1.736814	0.000000
X445	1.736814	0.000000
X116	12.04775	0.000000
X126	12.04775	0.000000
X136	12.04775	0.000000
X146	12.04775	0.000000
X216	4.437132	0.000000
X226	4.437132	0.000000
X236	4.437132	0.000000
X246	4.437132	0.000000
X316	0.1931962	0.000000
X326	0.1931962	0.000000
X336	0.1931962	0.000000
X346	0.1931962	0.000000
X416	1.910495	0.000000
X426	1.910495	0.000000

X436	1.910495	0.000000
X446	1.910495	0.000000
X117	12.04775	0.000000
X127	12.04775	0.000000
X137	12.04775	0.000000
X147	12.04775	0.000000
X217	4.437132	0.000000
X227	4.437132	0.000000
X237	4.437132	0.000000
X247	4.437132	0.000000
X317	0.1931962	0.000000
X327	0.1931962	0.000000
X337	0.1931962	0.000000
X347	0.1931962	0.000000
X417	1.910495	0.000000
X427	1.910495	0.000000
X437	1.910495	0.000000
X447	1.910495	0.000000
X118	12.04775	0.000000
X128	12.04775	0.000000
X138	12.04775	0.000000
X148	12.04775	0.000000
X218	4.437132	0.000000
X228	4.437132	0.000000
X238	4.437132	0.000000
X248	4.437132	0.000000
X318	0.1931962	0.000000
X328	0.1931962	0.000000
X338	0.1931962	0.000000
X348	0.1931962	0.000000
X418	1.910495	0.000000
X428	1.910495	0.000000
X438	1.910495	0.000000
X448	1.910495	0.000000
X119	12.04775	0.000000
X129	12.04775	0.000000
X139	12.04775	0.000000
X149	12.04775	0.000000
X219	4.437132	0.000000
X229	4.437132	0.000000
X239	4.437132	0.000000
X249	4.437132	0.000000
X319	0.1931962	0.000000
X329	0.1931962	0.000000
X339	0.1931962	0.000000
X349	0.1931962	0.000000
X419	1.910495	0.000000
X429	1.910495	0.000000
X439	1.910495	0.000000
X449	1.910495	0.000000

X1110	12.04775	0.000000
X1210	12.04775	0.000000
X1310	12.04775	0.000000
X1410	12.04775	0.000000
X2110	4.437132	0.000000
X2210	4.437132	0.000000
X2310	4.437132	0.000000
X2410	4.437132	0.000000
X3110	0.1931962	0.000000
X3210	0.1931962	0.000000
X3310	0.1931962	0.000000
X3410	0.1931962	0.000000
X4110	1.910495	0.000000
X4210	1.910495	0.000000
X4310	1.910495	0.000000
X4410	1.910495	0.000000
X1111	14.23824	0.000000
X1211	14.23824	0.000000
X1311	14.23824	0.000000
X1411	14.23824	0.000000
X2111	5.243883	0.000000
X2211	5.243883	0.000000
X2311	5.243883	0.000000
X2411	5.243883	0.000000
X3111	0.2283227	0.000000
X3211	0.2283227	0.000000
X3311	0.2283227	0.000000
X3411	0.2283227	0.000000
X4111	2.257858	0.000000
X4211	2.257858	0.000000
X4311	2.257858	0.000000
X4411	2.257858	0.000000
X1112	14.23824	0.000000
X1212	14.23824	0.000000
X1312	14.23824	0.000000
X1412	14.23824	0.000000
X2112	5.243883	0.000000
X2212	5.243883	0.000000
X2312	5.243883	0.000000
X2412	5.243883	0.000000
X3112	0.2283227	0.000000
X3212	0.2283227	0.000000
X3312	0.2283227	0.000000
X3412	0.2283227	0.000000
X4112	2.257858	0.000000
X4212	2.257858	0.000000
X4312	2.257858	0.000000
X4412	2.257858	0.000000
X1113	14.23824	0.000000
X1213	14.23824	0.000000