

Sumari Annexes

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1. Annex A: Estratègia “No realitzar l’última parada”

En aquest annex hi ha els resultats d'una simulació on l'estratègia a seguir és *no realitzar l’última parada*.

Les dades utilitzades en aquesta simulació són:

Pilot	Temps per volta[s]	Consum[l/volta]
1- Albert	121,1	0,99
2- Enric	122,345	0,97
3- Iker	122,456	0,95
4- Miquel	123,567	0,92

Fig. A.1. Taula amb les dades.

En primer lloc, s'exposa el procés calculat sense realitzar cap modificació. Donat que són taules de dades sense rellevància, només es mostra el primer full i l'última part, que és la que es modificarà.

Dels últims 7 relleus, aquells en que el pilot pot fer una volta suplementària, en la volta que entra a box està en vermell degut a que hi haurà una modificació: realitzarà una volta més.

El procediment de la part detallada està ubicat a continuació, en unes taules verticals. Es pot observar que l'última etapa d'alguns pilots és de 3 voltes en comptes de 2.

En les 3 últimes files de la taula, s'observa que l'últim pilot no entra a pista degut a que el temps restant de cursa ja és negatiu, és a dir, s'ha acabat la cursa.

La següent taula recull els resultats sense modificar:

Nº Reials	Nº Etapes	Estat inicial	Voltes Pilot	Voltes Equip	Sitació final	Tipus de volta	Tipus de parada	Rendiment	Rend. acumulat	Temps restant[s]	Temps [h]	Temps [min]
0	1	1	2	Albert	2	2	Box	Pista	Sortir de box	278,9	278,9	45
0	2	2	3	Albert	4	4	Pista	Pista	Continuar	242,2	521,1	41
0	3	3	4	Albert	6	6	Pista	Pista	Continuar	242,2	763,3	37
0	4	4	5	Albert	8	8	Pista	Pista	Continuar	242,2	1005,5	33
0	5	5	6	Albert	10	10	Pista	Pista	Continuar	242,2	1247,7	29
0	6	6	7	Albert	12	12	Pista	Pista	Continuar	242,2	1489,9	25
0	7	7	8	Albert	14	14	Pista	Pista	Continuar	242,2	1732,1	21
0	8	8	9	Albert	16	16	Pista	Pista	Continuar	242,2	1974,3	17
0	9	9	10	Albert	18	18	Pista	Pista	Continuar	242,2	2216,5	13
0	10	10	12	Albert	20	20	Pista	Pista	Continuar	242,2	2458,7	9
0	11	12	14	Albert	22	22	Pista	Pista	Continuar	242,2	2700,9	4
0	12	14	16	Albert	24	24	Pista	Box	Entrar a box	312,2	3013,1	59
1	13	16	17	Enric	2	26	Box	Pista	Sortir de box	281,39	3294,49	51
1	14	17	21	Enric	4	28	Pista	Pista	Continuar	244,69	3539,18	51
1	15	21	25	Enric	6	30	Pista	Pista	Continuar	244,69	3783,87	46
1	16	25	29	Enric	8	32	Pista	Pista	Continuar	244,69	4028,56	42
1	17	29	33	Enric	10	34	Pista	Pista	Continuar	244,69	4273,25	38
1	18	33	37	Enric	12	36	Pista	Pista	Continuar	244,69	4517,94	34
1	19	37	41	Enric	14	38	Pista	Pista	Continuar	244,69	4762,63	30
1	20	41	44	Enric	16	40	Pista	Pista	Continuar	244,69	5007,32	26
1	21	44	45	Enric	18	42	Pista	Pista	Continuar	244,69	5252,01	22
1	22	45	47	Enric	20	44	Pista	Pista	Continuar	244,69	5496,7	18
1	23	47	49	Enric	22	46	Pista	Pista	Continuar	244,69	5741,39	14
1	24	49	51	Enric	24	48	Pista	Box	Entrar a box	336,69	6078,08	8
2	25	51	52	Iker	2	50	Box	Pista	Sortir de box	281,612	6359,692	4
2	26	52	56	Iker	4	52	Pista	Pista	Continuar	244,912	6604,604	59
2	27	56	60	Iker	6	54	Pista	Pista	Continuar	244,912	6849,516	55
2	28	60	64	Iker	8	56	Pista	Pista	Continuar	244,912	7094,428	51
2	29	64	68	Iker	10	58	Pista	Pista	Continuar	244,912	7339,34	47
2	30	68	72	Iker	12	60	Pista	Pista	Continuar	244,912	7584,252	43
2	31	72	76	Iker	14	62	Pista	Pista	Continuar	244,912	7829,164	39
2	32	76	79	Iker	16	64	Pista	Pista	Continuar	244,912	8074,076	35
2	33	79	80	Iker	18	66	Pista	Pista	Continuar	244,912	8318,988	21

18	234	460	462	Iker	22	468	Pista	Pista	Continuar	244,912	59594,782	26205,218	7	16
18	235	462	464	Iker	24	470	Pista	Pista	Continuar	244,912	59839,694	25960,306	7	12
18	236	464	466	Iker	26	472	Pista	Box	Entrar a box	314,912	60154,606	25645,394	7	7
19	237	466	467	Albert	2	474	Box	Pista	Sortir de box	278,9	60433,506	25366,494	7	2
19	238	467	471	Albert	4	476	Pista	Pista	Continuar	242,2	60675,706	25124,294	6	58
19	239	471	475	Albert	6	478	Pista	Pista	Continuar	242,2	60917,906	24882,994	6	54
19	240	475	479	Albert	8	480	Pista	Pista	Continuar	242,2	61160,106	24639,394	6	50
19	241	479	483	Albert	10	482	Pista	Pista	Continuar	242,2	61402,306	24397,694	6	46
19	242	483	487	Albert	12	484	Pista	Pista	Continuar	242,2	61644,506	24155,494	6	42
19	243	487	491	Albert	14	486	Pista	Pista	Continuar	242,2	61886,706	23913,294	6	38
19	244	491	495	Albert	16	488	Pista	Pista	Continuar	242,2	62128,906	23671,094	6	34
19	245	495	497	Albert	18	490	Pista	Pista	Continuar	242,2	62371,106	23428,394	6	30
19	246	497	499	Albert	20	492	Pista	Pista	Continuar	242,2	62613,306	23186,694	6	26
19	247	499	501	Albert	22	494	Pista	Pista	Continuar	242,2	62855,506	22944,494	6	22
19	248	501	503	Albert	24	496	Pista	Box	Entrar a box	334,2	63189,706	22610,294	6	16
20	249	503	504	Miquel	2	498	Box	Pista	Sortir de box	283,834	63473,54	22226,46	6	12
20	250	504	508	Miquel	4	500	Pista	Pista	Continuar	247,134	63720,674	22079,326	6	7
20	251	508	512	Miquel	6	502	Pista	Pista	Continuar	247,134	63967,808	21832,192	6	3
20	252	512	516	Miquel	8	504	Pista	Pista	Continuar	247,134	64214,942	21585,058	5	59
20	253	516	520	Miquel	10	506	Pista	Pista	Continuar	247,134	64462,076	21337,924	5	55
20	254	520	524	Miquel	12	508	Pista	Pista	Continuar	247,134	64709,21	21090,79	5	51
20	255	524	528	Miquel	14	510	Pista	Pista	Continuar	247,134	64956,344	20843,656	5	47
20	256	528	530	Miquel	16	512	Pista	Pista	Continuar	247,134	65203,478	20596,522	5	43
20	257	530	531	Miquel	18	514	Pista	Pista	Continuar	247,134	65450,612	20349,388	5	39
20	258	531	532	Miquel	20	516	Pista	Pista	Continuar	247,134	65697,746	20102,254	5	35
20	259	532	534	Miquel	22	518	Pista	Pista	Continuar	247,134	65944,88	19855,12	5	30
20	260	534	536	Miquel	24	520	Pista	Pista	Continuar	247,134	66192,014	19607,986	5	26
20	261	536	538	Miquel	26	522	Pista	Box	Entrar a box	370,334	66562,148	19237,832	5	20
21	262	538	539	Enric	2	524	Box	Pista	Sortir de box	281,39	66843,538	18956,462	5	15
21	263	539	543	Enric	4	526	Pista	Pista	Continuar	244,69	67088,228	18711,772	5	11
21	264	543	547	Enric	6	528	Pista	Pista	Continuar	244,69	67332,918	18467,082	5	7
21	265	547	551	Enric	8	530	Pista	Pista	Continuar	244,69	67577,608	18222,392	5	3
21	266	551	555	Enric	10	532	Pista	Pista	Continuar	244,69	67822,298	17977,702	4	59
21	267	555	559	Enric	12	534	Pista	Pista	Continuar	244,69	68066,988	17733,012	4	55
21	268	559	563	Enric	14	536	Pista	Pista	Continuar	244,69	68311,678	17488,322	4	51
21	269	563	567	Enric	16	538	Pista	Pista	Continuar	244,69	68556,368	17243,632	4	47
21	270	567	569	Enric	18	540	Pista	Pista	Continuar	244,69	68801,058	16998,942	4	43
21	271	569	571	Enric	20	542	Pista	Pista	Continuar	244,69	69045,748	16754,252	4	39
21	272	571	573	Enric	22	544	Pista	Pista	Continuar	244,69	69290,438	16509,562	4	35
21	273	573	575	Enric	24	546	Pista	Box	Entrar a box	314,69	69605,128	16194,872	4	29

22	274	575	576	Iker	2	548	Box	Pista	Sortir de box	281,612	69886,74	15913,26	4	25
22	275	576	580	Iker	4	550	Pista	Pista	Continuar	244,912	70131,652	15668,348	4	21
22	276	580	584	Iker	6	552	Pista	Pista	Continuar	244,912	70376,564	15423,436	4	17
22	277	584	588	Iker	8	554	Pista	Pista	Continuar	244,912	70621,476	15178,524	4	12
22	278	588	592	Iker	10	556	Pista	Pista	Continuar	244,912	70866,388	14933,612	4	8
22	279	592	596	Iker	12	558	Pista	Pista	Continuar	244,912	71111,3	14688,7	4	4
22	280	596	600	Iker	14	560	Pista	Pista	Continuar	244,912	71356,212	14443,788	4	0
22	281	600	603	Iker	16	562	Pista	Pista	Continuar	244,912	71601,124	14198,876	3	56
22	282	603	604	Iker	18	564	Pista	Pista	Continuar	244,912	71846,036	13953,964	3	52
22	283	604	605	Iker	20	566	Pista	Pista	Continuar	244,912	72090,948	13709,052	3	48
22	284	605	607	Iker	22	568	Pista	Pista	Continuar	244,912	72335,86	13464,14	3	44
22	285	607	609	Iker	24	570	Pista	Pista	Continuar	244,912	72580,772	13219,228	3	40
22	286	609	611	Iker	26	572	Pista	Box	Entrar a box	336,912	72917,684	12882,316	3	34
23	287	611	612	Albert	2	574	Box	Pista	Sortir de box	278,9	73196,584	12603,416	3	30
23	288	612	616	Albert	4	576	Pista	Pista	Continuar	242,2	73438,784	12361,216	3	26
23	289	616	620	Albert	6	578	Pista	Pista	Continuar	242,2	73680,984	12119,016	3	21
23	290	620	624	Albert	8	580	Pista	Pista	Continuar	242,2	73923,184	11876,816	3	17
23	291	624	628	Albert	10	582	Pista	Pista	Continuar	242,2	74165,384	11634,616	3	13
23	292	628	632	Albert	12	584	Pista	Pista	Continuar	242,2	74407,584	11392,416	3	9
23	293	632	636	Albert	14	586	Pista	Pista	Continuar	242,2	74649,784	11150,216	3	5
23	294	636	640	Albert	16	588	Pista	Pista	Continuar	242,2	74891,984	10908,016	3	1
23	295	640	642	Albert	18	590	Pista	Pista	Continuar	242,2	75134,184	10665,816	2	57
23	296	642	644	Albert	20	592	Pista	Pista	Continuar	242,2	75376,384	10423,616	2	53
23	297	644	646	Albert	22	594	Pista	Pista	Continuar	242,2	75618,584	10181,416	2	49
23	298	646	648	Albert	24	596	Pista	Box	Entrar a box	365,2	75983,784	9816,216	2	43
24	299	648	88	Albert	2	598	Box	Pista	Sortir de box	278,9	76262,684	9537,316	2	38
24	300	88	92	Albert	4	600	Pista	Pista	Continuar	242,2	76504,884	9295,116	2	34
24	301	92	96	Albert	6	602	Pista	Pista	Continuar	242,2	76747,084	9052,916	2	30
24	302	96	100	Albert	8	604	Pista	Pista	Continuar	242,2	76989,284	8810,716	2	26
24	303	100	104	Albert	10	606	Pista	Pista	Continuar	242,2	77231,484	8568,516	2	22
24	304	104	108	Albert	12	608	Pista	Pista	Continuar	242,2	77473,684	8326,316	2	18
24	305	108	112	Albert	14	610	Pista	Pista	Continuar	242,2	77715,884	8084,116	2	14
24	306	112	116	Albert	16	612	Pista	Pista	Continuar	242,2	77958,084	7841,916	2	10
24	307	116	120	Albert	18	614	Pista	Pista	Continuar	242,2	78200,284	7599,716	2	6
24	308	120	128	Albert	20	616	Pista	Pista	Continuar	242,2	78442,484	7357,516	2	2
24	309	128	136	Albert	22	618	Pista	Box	Entrar a box	312,2	78684,684	7115,316	1	58
24	310	136	144	Albert	24	620	Pista	Pista	Sortir de box	281,39	79278,274	6521,726	1	48
25	311	144	148	Enric	2	622	Box	Pista	Continuar	244,69	79522,964	6277,036	1	44
25	312	148	155	Enric	4	624	Pista	Pista	Continuar	244,69	79767,654	6032,346	1	40

25	314	162	169	Enric	8	628	Pista	Pista	Continuar		244,69	80012,344	5787,656	1	36
25	315	169	176	Enric	10	630	Pista	Pista	Continuar		244,69	80257,034	5542,966	1	32
25	316	176	183	Enric	12	632	Pista	Pista	Continuar		244,69	80501,724	5298,276	1	28
25	317	183	190	Enric	14	634	Pista	Pista	Continuar		244,69	80746,444	5053,586	1	24
25	318	190	197	Enric	16	636	Pista	Pista	Continuar		244,69	80991,104	4808,896	1	20
25	319	197	204	Enric	18	638	Pista	Pista	Continuar		244,69	81235,794	4564,206	1	16
25	320	204	218	Enric	20	640	Pista	Pista	Continuar		244,69	81480,484	4319,516	1	11
25	321	218	232	Enric	22	642	Pista	Pista	Continuar		244,69	81725,174	4074,826	1	7
25	322	232	246	Enric	24	644	Pista	Box	Pne. davanter		336,69	82061,864	3758,136	1	2
26	323	246	252	Iker	2	646	Box	Pista	Sortir de box		281,612	82343,476	3456,524	0	57
26	324	252	276	Iker	4	648	Pista	Pista	Continuar		244,912	82588,388	3211,612	0	53
26	325	276	296	Iker	6	650	Pista	Pista	Continuar		244,912	82833,3	2966,7	0	49
26	326	296	64	Iker	8	652	Pista	Pista	Continuar		244,912	83078,212	2721,788	0	45
26	327	64	68	Iker	10	654	Pista	Pista	Continuar		244,912	83323,124	2476,876	0	41
26	328	68	72	Iker	12	656	Pista	Pista	Continuar		244,912	83568,036	2231,964	0	37
26	329	72	76	Iker	14	658	Pista	Pista	Continuar		244,912	83812,948	1987,052	0	33
26	330	76	79	Iker	16	660	Pista	Pista	Continuar		244,912	84057,86	1742,14	0	29
26	331	79	80	Iker	18	662	Pista	Pista	Continuar		244,912	84302,772	1497,228	0	24
26	332	80	81	Iker	20	664	Pista	Pista	Continuar		244,912	84547,684	1252,316	0	20
26	333	81	83	Iker	22	666	Pista	Pista	Continuar		244,912	84792,596	1007,404	0	16
26	334	83	85	Iker	24	668	Pista	Pista	Continuar		244,912	85037,508	762,492	0	12
26	335	85	87	Iker	26	670	Pista	Box	Pne. 2 Rodes		367,912	85405,42	394,58	0	6
27	336	87	323	Miquel	2	672	Box	Pista	Sortir de box		283,834	85689,254	110,746	0	1
27	337	323	327	Miquel	4	674	Pista	Pista	Continuar		247,134	85936,388	-136,388	0	-2

Taula amb l'última part modificada:

Voltes Pilot	Voltes equip	Rendiment	Rend. acumulat	Temps restant [s]	Temps [h]	Temps [min]
27	523	493,701	66685,715	19114,285	5	18
2	525	281,39	66967,105	18832,895	5	13
4	527	244,69	67211,795	18588,205	5	9
6	529	244,69	67456,485	18343,515	5	5
8	531	244,69	67701,175	18098,825	5	1
10	533	244,69	67945,865	17854,135	4	57
12	535	244,69	68190,555	17609,445	4	53
14	537	244,69	68435,245	17364,755	4	49
16	539	244,69	68679,935	17120,065	4	45
18	541	244,69	68924,625	16875,375	4	41
20	543	244,69	69169,315	16630,685	4	37
22	545	244,69	69414,005	16385,995	4	33
25	548	437,035	69851,04	15948,96	4	25
2	550	281,612	70132,652	15667,348	4	21
4	552	244,912	70377,564	15422,436	4	17
6	554	244,912	70622,476	15177,524	4	12
8	556	244,912	70867,388	14932,612	4	8
10	558	244,912	71112,3	14687,7	4	4
12	560	244,912	71357,212	14442,788	4	0
14	562	244,912	71602,124	14197,876	3	56
16	564	244,912	71847,036	13952,964	3	52
18	566	244,912	72091,948	13708,052	3	48
20	568	244,912	72336,86	13463,14	3	44
22	570	244,912	72581,772	13218,228	3	40
24	572	244,912	72826,684	12973,316	3	36
26	574	336,912	73163,596	12636,404	3	30
2	576	278,9	73442,496	12357,504	3	25
4	578	242,2	73684,696	12115,304	3	21
6	580	242,2	73926,896	11873,104	3	17
8	582	242,2	74169,096	11630,904	3	13
10	584	242,2	74411,296	11388,704	3	9
12	586	242,2	74653,496	11146,504	3	5
14	588	242,2	74895,696	10904,304	3	1
16	590	242,2	75137,896	10662,104	2	57
18	592	242,2	75380,096	10419,904	2	53
20	594	242,2	75622,296	10177,704	2	49
22	596	242,2	75864,496	9935,504	2	45
25	599	486,3	76350,796	9449,204	2	37
2	601	278,9	76629,696	9170,304	2	32
4	603	242,2	76871,896	8928,104	2	28
6	605	242,2	77114,096	8685,904	2	24
8	607	242,2	77356,296	8443,704	2	20
10	609	242,2	77598,496	8201,504	2	16

12	611	242,2	77840,696	7959,304	2	12
14	613	242,2	78082,896	7717,104	2	8
16	615	242,2	78325,096	7474,904	2	4
18	617	242,2	78567,296	7232,704	2	0
20	619	242,2	78809,496	6990,504	1	56
22	621	242,2	79051,696	6748,304	1	52
25	624	433,3	79484,996	6315,004	1	45
2	626	281,39	79766,386	6033,614	1	40
4	628	244,69	80011,076	5788,924	1	36
6	630	244,69	80255,766	5544,234	1	32
8	632	244,69	80500,456	5299,544	1	28
10	634	244,69	80745,146	5054,854	1	24
12	636	244,69	80989,836	4810,164	1	20
14	638	244,69	81234,526	4565,474	1	16
16	640	244,69	81479,216	4320,784	1	12
18	642	244,69	81723,906	4076,094	1	7
20	644	244,69	81968,596	3831,404	1	3
22	646	244,69	82213,286	3586,714	0	59
25	649	459,035	82672,321	3127,679	0	52
2	651	281,612	82953,933	2846,067	0	47
4	653	244,912	83198,845	2601,155	0	43
6	655	244,912	83443,757	2356,243	0	39
8	657	244,912	83688,669	2111,331	0	35
10	659	244,912	83933,581	1866,419	0	31
12	661	244,912	84178,493	1621,507	0	27
14	663	244,912	84423,405	1376,595	0	22
16	665	244,912	84668,317	1131,683	0	18
18	667	244,912	84913,229	886,771	0	14
20	669	244,912	85158,141	641,859	0	10
22	671	244,912	85403,053	396,947	0	6
24	673	244,912	85647,965	152,035	0	2
26	675	367,912	86015,877	-215,877	0	-3
2	677	283,834	86299,711	-499,711	0	-8
4	679	247,134	86546,845	-746,845	0	-12

2. Annex B: Matriu d'estats

Matriu d'estats amb la pista seca:

Estat	i_PP	P	Tc(1) [s]	Tc(2) [s]	Tc(3) [s]	Tc(4) [s]	V_N	Tipus_Volta	Estats Totals
									982
1	0	0	0	0	0	0	0	1	
2	1	2	0	244,358	0	0	2	2	
3	1	2	0	485,946	0	0	4	0	
4	1	2	0	727,534	0	0	6	0	
5	1	2	0	969,122	0	0	8	0	
6	1	2	0	1210,71	0	0	10	0	
7	1	2	0	1452,298	0	0	12	0	
8	1	2	0	1693,886	0	0	14	0	
9	1	2	0	1935,474	0	0	16	0	
10	1	2	0	2177,062	0	0	18	0	
11	1	2	0	2418,65	0	0	20	0	
12	1	2	0	2660,238	0	0	22	0	
13	1	2	0	2901,826	0	0	24	0	
14	1	2	0	2826,126	0	0	24	1	
15	1	2	0	3143,414	0	0	26	0	
16	1	2	0	3067,714	0	0	26	1	
17	1	2	0	3385,002	0	0	28	0	
18	1	2	0	3309,302	0	0	28	1	
19	1	2	0	3550,89	0	0	30	1	
20	2	3	0	3189,912	240,652	0	2	2	
21	2	3	0	2948,324	240,652	0	2	2	
22	2	3	0	2706,736	240,652	0	2	2	
23	2	3	0	2465,148	240,652	0	2	2	
24	2	3	0	2833,089	478,534	0	4	0	
25	2	3	0	2591,501	478,534	0	4	0	
26	2	3	0	2349,913	478,534	0	4	0	
27	2	3	0	2108,325	478,534	0	4	0	
28	2	3	0	2476,266	716,416	0	6	0	
29	2	3	0	2234,678	716,416	0	6	0	
30	2	3	0	1993,09	716,416	0	6	0	
31	2	3	0	1751,502	716,416	0	6	0	
32	2	3	0	2119,443	954,298	0	8	0	
33	2	3	0	1877,855	954,298	0	8	0	
34	2	3	0	1636,267	954,298	0	8	0	
35	2	3	0	1394,679	954,298	0	8	0	
36	2	3	0	1762,62	1192,18	0	10	0	
37	2	3	0	1521,032	1192,18	0	10	0	
38	2	3	0	1279,444	1192,18	0	10	0	
39	2	3	0	1037,856	1192,18	0	10	0	
40	2	3	0	1405,797	1430,062	0	12	0	
41	2	3	0	1164,209	1430,062	0	12	0	
42	2	3	0	922,621	1430,062	0	12	0	
43	2	3	0	681,033	1430,062	0	12	0	
44	2	3	0	1048,974	1667,944	0	14	0	
45	2	3	0	807,386	1667,944	0	14	0	
46	2	3	0	565,798	1667,944	0	14	0	
47	2	3	0	324,21	1667,944	0	14	0	
48	2	3	0	692,151	1905,826	0	16	0	
49	2	3	0	450,563	1905,826	0	16	0	

50	2	3	0	208,975	1905,826	0	16	0
51	2	3	0	0	1905,826	0	16	0
52	2	3	0	335,328	2143,708	0	18	0
53	2	3	0	93,74	2143,708	0	18	0
54	2	3	0	0	2143,708	0	18	0
55	2	3	0	0	2381,59	0	20	0
56	2	3	0	0	2619,472	0	22	0
57	2	3	0	0	2474,772	0	22	1
58	2	3	0	0	2857,354	0	24	0
59	2	3	0	0	2712,654	0	24	1
60	2	3	0	0	3095,236	0	26	0
61	2	3	0	0	2950,536	0	26	1
62	2	3	0	0	3188,418	0	28	1
63	3	1	240,784	0	2827,242	0	2	2
64	3	1	240,784	0	2589,36	0	2	2
65	3	1	240,784	0	2351,478	0	2	2
66	3	1	240,784	0	2113,596	0	2	2
67	3	1	478,798	0	2470,221	0	4	0
68	3	1	478,798	0	2232,339	0	4	0
69	3	1	478,798	0	1994,457	0	4	0
70	3	1	478,798	0	1756,575	0	4	0
71	3	1	716,812	0	2113,2	0	6	0
72	3	1	716,812	0	1875,318	0	6	0
73	3	1	716,812	0	1637,436	0	6	0
74	3	1	716,812	0	1399,554	0	6	0
75	3	1	954,826	0	1756,179	0	8	0
76	3	1	954,826	0	1518,297	0	8	0
77	3	1	954,826	0	1280,415	0	8	0
78	3	1	954,826	0	1042,533	0	8	0
79	3	1	1192,84	0	1399,158	0	10	0
80	3	1	1192,84	0	1161,276	0	10	0
81	3	1	1192,84	0	923,394	0	10	0
82	3	1	1192,84	0	685,512	0	10	0
83	3	1	1430,854	0	1042,137	0	12	0
84	3	1	1430,854	0	804,255	0	12	0
85	3	1	1430,854	0	566,373	0	12	0
86	3	1	1430,854	0	328,491	0	12	0
87	3	1	1668,868	0	685,116	0	14	0
88	3	1	1668,868	0	447,234	0	14	0
89	3	1	1668,868	0	209,352	0	14	0
90	3	1	1668,868	0	0	0	14	0
91	3	1	1906,882	0	328,095	0	16	0
92	3	1	1906,882	0	90,213	0	16	0
93	3	1	1906,882	0	0	0	16	0
94	3	1	2144,896	0	0	0	18	0
95	3	1	2382,91	0	0	0	20	0
96	3	1	2620,924	0	0	0	22	0
97	3	1	2545,224	0	0	0	22	1
98	3	1	2858,938	0	0	0	24	0
99	3	1	2783,238	0	0	0	24	1
100	3	1	3096,952	0	0	0	26	0
101	3	1	3021,252	0	0	0	26	1
102	3	1	3259,266	0	0	0	28	1
103	1	2	0	244,358	2779,881	0	2	2
104	1	2	0	244,358	2541,999	0	2	2
105	1	2	0	244,358	2304,117	0	2	2
106	1	2	0	244,358	2066,235	0	2	2
107	1	2	0	485,946	2417,499	0	4	0
108	1	2	0	485,946	2179,617	0	4	0

109	1	2	0	485,946	1941,735	0	4	0
110	1	2	0	485,946	1703,853	0	4	0
111	1	2	0	727,534	2055,117	0	6	0
112	1	2	0	727,534	1817,235	0	6	0
113	1	2	0	727,534	1579,353	0	6	0
114	1	2	0	727,534	1341,471	0	6	0
115	1	2	0	969,122	1692,735	0	8	0
116	1	2	0	969,122	1454,853	0	8	0
117	1	2	0	969,122	1216,971	0	8	0
118	1	2	0	969,122	979,089	0	8	0
119	1	2	0	1210,71	1330,353	0	10	0
120	1	2	0	1210,71	1092,471	0	10	0
121	1	2	0	1210,71	854,589	0	10	0
122	1	2	0	1210,71	616,707	0	10	0
123	1	2	0	1452,298	967,971	0	12	0
124	1	2	0	1452,298	730,089	0	12	0
125	1	2	0	1452,298	492,207	0	12	0
126	1	2	0	1452,298	254,325	0	12	0
127	1	2	0	1693,886	605,589	0	14	0
128	1	2	0	1693,886	367,707	0	14	0
129	1	2	0	1693,886	129,825	0	14	0
130	1	2	0	1935,474	243,207	0	16	0
131	1	2	0	1935,474	5,325	0	16	0
132	4	4	2900,085	0	0	239,454	2	2
133	4	4	2662,071	0	0	239,454	2	2
134	4	4	2424,057	0	0	239,454	2	2
135	4	4	2186,043	0	0	239,454	2	2
136	4	4	2545,059	0	0	476,138	4	0
137	4	4	2307,045	0	0	476,138	4	0
138	4	4	2069,031	0	0	476,138	4	0
139	4	4	1831,017	0	0	476,138	4	0
140	4	4	2190,033	0	0	712,822	6	0
141	4	4	1952,019	0	0	712,822	6	0
142	4	4	1714,005	0	0	712,822	6	0
143	4	4	1475,991	0	0	712,822	6	0
144	4	4	1835,007	0	0	949,506	8	0
145	4	4	1596,993	0	0	949,506	8	0
146	4	4	1358,979	0	0	949,506	8	0
147	4	4	1120,965	0	0	949,506	8	0
148	4	4	1479,981	0	0	1186,19	10	0
149	4	4	1241,967	0	0	1186,19	10	0
150	4	4	1003,953	0	0	1186,19	10	0
151	4	4	765,939	0	0	1186,19	10	0
152	4	4	1124,955	0	0	1422,874	12	0
153	4	4	886,941	0	0	1422,874	12	0
154	4	4	648,927	0	0	1422,874	12	0
155	4	4	410,913	0	0	1422,874	12	0
156	4	4	769,929	0	0	1659,558	14	0
157	4	4	531,915	0	0	1659,558	14	0
158	4	4	293,901	0	0	1659,558	14	0
159	4	4	55,887	0	0	1659,558	14	0
160	4	4	414,903	0	0	1896,242	16	0
161	4	4	176,889	0	0	1896,242	16	0
162	4	4	0	0	0	1896,242	16	0
163	4	4	59,877	0	0	2132,926	18	0
164	4	4	0	0	0	2132,926	18	0
165	4	4	0	0	0	2369,61	20	0
166	4	4	0	0	0	2182,91	20	1
167	4	4	0	0	0	2606,294	22	0

168	4	4	0	0	0	2419,594	22	1
169	4	4	0	0	0	2842,978	24	0
170	4	4	0	0	0	2656,278	24	1
171	4	4	0	0	0	2892,962	26	1
172	5	2	0	244,358	0	2526,425	2	2
173	5	2	0	244,358	0	2289,741	2	2
174	5	2	0	244,358	0	2053,057	2	2
175	5	2	0	244,358	0	1816,373	2	2
176	5	2	0	485,946	0	2164,043	4	0
177	5	2	0	485,946	0	1927,359	4	0
178	5	2	0	485,946	0	1690,675	4	0
179	5	2	0	485,946	0	1453,991	4	0
180	5	2	0	727,534	0	1801,661	6	0
181	5	2	0	727,534	0	1564,977	6	0
182	5	2	0	727,534	0	1328,293	6	0
183	5	2	0	727,534	0	1091,609	6	0
184	5	2	0	969,122	0	1439,279	8	0
185	5	2	0	969,122	0	1202,595	8	0
186	5	2	0	969,122	0	965,911	8	0
187	5	2	0	969,122	0	729,227	8	0
188	5	2	0	1210,71	0	1076,897	10	0
189	5	2	0	1210,71	0	840,213	10	0
190	5	2	0	1210,71	0	603,529	10	0
191	5	2	0	1210,71	0	366,845	10	0
192	5	2	0	1452,298	0	714,515	12	0
193	5	2	0	1452,298	0	477,831	12	0
194	5	2	0	1452,298	0	241,147	12	0
195	5	2	0	1452,298	0	4,463	12	0
196	5	2	0	1693,886	0	352,133	14	0
197	5	2	0	1693,886	0	115,449	14	0
198	5	2	0	1693,886	0	0	14	0
199	5	2	0	1935,474	0	0	16	0
200	5	2	0	2177,062	0	0	18	0
201	5	2	0	2418,65	0	0	20	0
202	5	2	0	2660,238	0	0	22	0
203	5	2	0	2901,826	0	0	24	0
204	5	2	0	2826,126	0	0	24	1
205	5	2	0	3143,414	0	0	26	0
206	5	2	0	3067,714	0	0	26	1
207	5	2	0	3385,002	0	0	28	0
208	5	2	0	3309,302	0	0	28	1
209	5	2	0	3550,89	0	0	30	1
210	6	3	0	3189,912	240,652	0	2	2
211	6	3	0	2948,324	240,652	0	2	2
212	6	3	0	2706,736	240,652	0	2	2
213	6	3	0	2465,148	240,652	0	2	2
214	6	3	0	2833,089	478,534	0	4	0
215	6	3	0	2591,501	478,534	0	4	0
216	6	3	0	2349,913	478,534	0	4	0
217	6	3	0	2108,325	478,534	0	4	0
218	6	3	0	2476,266	716,416	0	6	0
219	6	3	0	2234,678	716,416	0	6	0
220	6	3	0	1993,09	716,416	0	6	0
221	6	3	0	1751,502	716,416	0	6	0
222	6	3	0	2119,443	954,298	0	8	0
223	6	3	0	1877,855	954,298	0	8	0
224	6	3	0	1636,267	954,298	0	8	0
225	6	3	0	1394,679	954,298	0	8	0
226	6	3	0	1762,62	1192,18	0	10	0

227	6	3	0	1521,032	1192,18	0	10	0
228	6	3	0	1279,444	1192,18	0	10	0
229	6	3	0	1037,856	1192,18	0	10	0
230	6	3	0	1405,797	1430,062	0	12	0
231	6	3	0	1164,209	1430,062	0	12	0
232	6	3	0	922,621	1430,062	0	12	0
233	6	3	0	681,033	1430,062	0	12	0
234	6	3	0	1048,974	1667,944	0	14	0
235	6	3	0	807,386	1667,944	0	14	0
236	6	3	0	565,798	1667,944	0	14	0
237	6	3	0	324,21	1667,944	0	14	0
238	6	3	0	692,151	1905,826	0	16	0
239	6	3	0	450,563	1905,826	0	16	0
240	6	3	0	208,975	1905,826	0	16	0
241	6	3	0	0	1905,826	0	16	0
242	6	3	0	335,328	2143,708	0	18	0
243	6	3	0	93,74	2143,708	0	18	0
244	6	3	0	0	2143,708	0	18	0
245	6	3	0	0	2381,59	0	20	0
246	6	3	0	0	2619,472	0	22	0
247	6	3	0	0	2474,772	0	22	1
248	6	3	0	0	2857,354	0	24	0
249	6	3	0	0	2712,654	0	24	1
250	6	3	0	0	3095,236	0	26	0
251	6	3	0	0	2950,536	0	26	1
252	6	3	0	0	3188,418	0	28	1
253	7	1	240,784	0	2827,242	0	2	2
254	7	1	240,784	0	2589,36	0	2	2
255	7	1	240,784	0	2351,478	0	2	2
256	7	1	240,784	0	2113,596	0	2	2
257	7	1	478,798	0	2470,221	0	4	0
258	7	1	478,798	0	2232,339	0	4	0
259	7	1	478,798	0	1994,457	0	4	0
260	7	1	478,798	0	1756,575	0	4	0
261	7	1	716,812	0	2113,2	0	6	0
262	7	1	716,812	0	1875,318	0	6	0
263	7	1	716,812	0	1637,436	0	6	0
264	7	1	716,812	0	1399,554	0	6	0
265	7	1	954,826	0	1756,179	0	8	0
266	7	1	954,826	0	1518,297	0	8	0
267	7	1	954,826	0	1280,415	0	8	0
268	7	1	954,826	0	1042,533	0	8	0
269	7	1	1192,84	0	1399,158	0	10	0
270	7	1	1192,84	0	1161,276	0	10	0
271	7	1	1192,84	0	923,394	0	10	0
272	7	1	1192,84	0	685,512	0	10	0
273	7	1	1430,854	0	1042,137	0	12	0
274	7	1	1430,854	0	804,255	0	12	0
275	7	1	1430,854	0	566,373	0	12	0
276	7	1	1430,854	0	328,491	0	12	0
277	7	1	1668,868	0	685,116	0	14	0
278	7	1	1668,868	0	447,234	0	14	0
279	7	1	1668,868	0	209,352	0	14	0
280	7	1	1668,868	0	0	0	14	0
281	7	1	1906,882	0	328,095	0	16	0
282	7	1	1906,882	0	90,213	0	16	0
283	7	1	1906,882	0	0	0	16	0
284	7	1	2144,896	0	0	0	18	0
285	7	1	2382,91	0	0	0	20	0

286	7	1	2620,924	0	0	0	22	0
287	7	1	2545,224	0	0	0	22	1
288	7	1	2858,938	0	0	0	24	0
289	7	1	2783,238	0	0	0	24	1
290	7	1	3096,952	0	0	0	26	0
291	7	1	3021,252	0	0	0	26	1
292	7	1	3259,266	0	0	0	28	1
293	8	4	2900,085	0	0	239,454	2	2
294	8	4	2662,071	0	0	239,454	2	2
295	8	4	2424,057	0	0	239,454	2	2
296	8	4	2186,043	0	0	239,454	2	2
297	8	4	2545,059	0	0	476,138	4	0
298	8	4	2307,045	0	0	476,138	4	0
299	8	4	2069,031	0	0	476,138	4	0
300	8	4	1831,017	0	0	476,138	4	0
301	8	4	2190,033	0	0	712,822	6	0
302	8	4	1952,019	0	0	712,822	6	0
303	8	4	1714,005	0	0	712,822	6	0
304	8	4	1475,991	0	0	712,822	6	0
305	8	4	1835,007	0	0	949,506	8	0
306	8	4	1596,993	0	0	949,506	8	0
307	8	4	1358,979	0	0	949,506	8	0
308	8	4	1120,965	0	0	949,506	8	0
309	8	4	1479,981	0	0	1186,19	10	0
310	8	4	1241,967	0	0	1186,19	10	0
311	8	4	1003,953	0	0	1186,19	10	0
312	8	4	765,939	0	0	1186,19	10	0
313	8	4	1124,955	0	0	1422,874	12	0
314	8	4	886,941	0	0	1422,874	12	0
315	8	4	648,927	0	0	1422,874	12	0
316	8	4	410,913	0	0	1422,874	12	0
317	8	4	769,929	0	0	1659,558	14	0
318	8	4	531,915	0	0	1659,558	14	0
319	8	4	293,901	0	0	1659,558	14	0
320	8	4	55,887	0	0	1659,558	14	0
321	8	4	414,903	0	0	1896,242	16	0
322	8	4	176,889	0	0	1896,242	16	0
323	8	4	0	0	0	1896,242	16	0
324	8	4	59,877	0	0	2132,926	18	0
325	8	4	0	0	0	2132,926	18	0
326	8	4	0	0	0	2369,61	20	0
327	8	4	0	0	0	2182,91	20	1
328	8	4	0	0	0	2606,294	22	0
329	8	4	0	0	0	2419,594	22	1
330	8	4	0	0	0	2842,978	24	0
331	8	4	0	0	0	2656,278	24	1
332	8	4	0	0	0	2892,962	26	1
333	9	2	0	244,358	0	2526,425	2	2
334	9	2	0	244,358	0	2289,741	2	2
335	9	2	0	244,358	0	2053,057	2	2
336	9	2	0	244,358	0	1816,373	2	2
337	9	2	0	485,946	0	2164,043	4	0
338	9	2	0	485,946	0	1927,359	4	0
339	9	2	0	485,946	0	1690,675	4	0
340	9	2	0	485,946	0	1453,991	4	0
341	9	2	0	727,534	0	1801,661	6	0
342	9	2	0	727,534	0	1564,977	6	0
343	9	2	0	727,534	0	1328,293	6	0
344	9	2	0	727,534	0	1091,609	6	0

345	9	2	0	969,122	0	1439,279	8	0
346	9	2	0	969,122	0	1202,595	8	0
347	9	2	0	969,122	0	965,911	8	0
348	9	2	0	969,122	0	729,227	8	0
349	9	2	0	1210,71	0	1076,897	10	0
350	9	2	0	1210,71	0	840,213	10	0
351	9	2	0	1210,71	0	603,529	10	0
352	9	2	0	1210,71	0	366,845	10	0
353	9	2	0	1452,298	0	714,515	12	0
354	9	2	0	1452,298	0	477,831	12	0
355	9	2	0	1452,298	0	241,147	12	0
356	9	2	0	1452,298	0	4,463	12	0
357	9	2	0	1693,886	0	352,133	14	0
358	9	2	0	1693,886	0	115,449	14	0
359	9	2	0	1693,886	0	0	14	0
360	9	2	0	1935,474	0	0	16	0
361	9	2	0	2177,062	0	0	18	0
362	9	2	0	2418,65	0	0	20	0
363	9	2	0	2660,238	0	0	22	0
364	9	2	0	2901,826	0	0	24	0
365	9	2	0	2826,126	0	0	24	1
366	9	2	0	3143,414	0	0	26	0
367	9	2	0	3067,714	0	0	26	1
368	9	2	0	3385,002	0	0	28	0
369	9	2	0	3309,302	0	0	28	1
370	9	2	0	3550,89	0	0	30	1
371	10	3	0	3189,912	240,652	0	2	2
372	10	3	0	2948,324	240,652	0	2	2
373	10	3	0	2706,736	240,652	0	2	2
374	10	3	0	2465,148	240,652	0	2	2
375	10	3	0	2833,089	478,534	0	4	0
376	10	3	0	2591,501	478,534	0	4	0
377	10	3	0	2349,913	478,534	0	4	0
378	10	3	0	2108,325	478,534	0	4	0
379	10	3	0	2476,266	716,416	0	6	0
380	10	3	0	2234,678	716,416	0	6	0
381	10	3	0	1993,09	716,416	0	6	0
382	10	3	0	1751,502	716,416	0	6	0
383	10	3	0	2119,443	954,298	0	8	0
384	10	3	0	1877,855	954,298	0	8	0
385	10	3	0	1636,267	954,298	0	8	0
386	10	3	0	1394,679	954,298	0	8	0
387	10	3	0	1762,62	1192,18	0	10	0
388	10	3	0	1521,032	1192,18	0	10	0
389	10	3	0	1279,444	1192,18	0	10	0
390	10	3	0	1037,856	1192,18	0	10	0
391	10	3	0	1405,797	1430,062	0	12	0
392	10	3	0	1164,209	1430,062	0	12	0
393	10	3	0	922,621	1430,062	0	12	0
394	10	3	0	681,033	1430,062	0	12	0
395	10	3	0	1048,974	1667,944	0	14	0
396	10	3	0	807,386	1667,944	0	14	0
397	10	3	0	565,798	1667,944	0	14	0
398	10	3	0	324,21	1667,944	0	14	0
399	10	3	0	692,151	1905,826	0	16	0
400	10	3	0	450,563	1905,826	0	16	0
401	10	3	0	208,975	1905,826	0	16	0
402	10	3	0	0	1905,826	0	16	0
403	10	3	0	335,328	2143,708	0	18	0

404	10	3	0	93,74	2143,708	0	18	0
405	10	3	0	0	2143,708	0	18	0
406	10	3	0	0	2381,59	0	20	0
407	10	3	0	0	2619,472	0	22	0
408	10	3	0	0	2474,772	0	22	1
409	10	3	0	0	2857,354	0	24	0
410	10	3	0	0	2712,654	0	24	1
411	10	3	0	0	3095,236	0	26	0
412	10	3	0	0	2950,536	0	26	1
413	10	3	0	0	3188,418	0	28	1
414	11	1	240,784	0	2827,242	0	2	2
415	11	1	240,784	0	2589,36	0	2	2
416	11	1	240,784	0	2351,478	0	2	2
417	11	1	240,784	0	2113,596	0	2	2
418	11	1	478,798	0	2470,221	0	4	0
419	11	1	478,798	0	2232,339	0	4	0
420	11	1	478,798	0	1994,457	0	4	0
421	11	1	478,798	0	1756,575	0	4	0
422	11	1	716,812	0	2113,2	0	6	0
423	11	1	716,812	0	1875,318	0	6	0
424	11	1	716,812	0	1637,436	0	6	0
425	11	1	716,812	0	1399,554	0	6	0
426	11	1	954,826	0	1756,179	0	8	0
427	11	1	954,826	0	1518,297	0	8	0
428	11	1	954,826	0	1280,415	0	8	0
429	11	1	954,826	0	1042,533	0	8	0
430	11	1	1192,84	0	1399,158	0	10	0
431	11	1	1192,84	0	1161,276	0	10	0
432	11	1	1192,84	0	923,394	0	10	0
433	11	1	1192,84	0	685,512	0	10	0
434	11	1	1430,854	0	1042,137	0	12	0
435	11	1	1430,854	0	804,255	0	12	0
436	11	1	1430,854	0	566,373	0	12	0
437	11	1	1430,854	0	328,491	0	12	0
438	11	1	1668,868	0	685,116	0	14	0
439	11	1	1668,868	0	447,234	0	14	0
440	11	1	1668,868	0	209,352	0	14	0
441	11	1	1668,868	0	0	0	14	0
442	11	1	1906,882	0	328,095	0	16	0
443	11	1	1906,882	0	90,213	0	16	0
444	11	1	1906,882	0	0	0	16	0
445	11	1	2144,896	0	0	0	18	0
446	11	1	2382,91	0	0	0	20	0
447	11	1	2620,924	0	0	0	22	0
448	11	1	2545,224	0	0	0	22	1
449	11	1	2858,938	0	0	0	24	0
450	11	1	2783,238	0	0	0	24	1
451	11	1	3096,952	0	0	0	26	0
452	11	1	3021,252	0	0	0	26	1
453	11	1	3259,266	0	0	0	28	1
454	12	2	2892,729	244,358	0	0	2	2
455	12	2	2654,715	244,358	0	0	2	2
456	12	2	2416,701	244,358	0	0	2	2
457	12	2	2178,687	244,358	0	0	2	2
458	12	2	2530,347	485,946	0	0	4	0
459	12	2	2292,333	485,946	0	0	4	0
460	12	2	2054,319	485,946	0	0	4	0
461	12	2	1816,305	485,946	0	0	4	0
462	12	2	2167,965	727,534	0	0	6	0

463	12	2	1929,951	727,534	0	0	6	0
464	12	2	1691,937	727,534	0	0	6	0
465	12	2	1453,923	727,534	0	0	6	0
466	12	2	1805,583	969,122	0	0	8	0
467	12	2	1567,569	969,122	0	0	8	0
468	12	2	1329,555	969,122	0	0	8	0
469	12	2	1091,541	969,122	0	0	8	0
470	12	2	1443,201	1210,71	0	0	10	0
471	12	2	1205,187	1210,71	0	0	10	0
472	12	2	967,173	1210,71	0	0	10	0
473	12	2	729,159	1210,71	0	0	10	0
474	12	2	1080,819	1452,298	0	0	12	0
475	12	2	842,805	1452,298	0	0	12	0
476	12	2	604,791	1452,298	0	0	12	0
477	12	2	366,777	1452,298	0	0	12	0
478	12	2	718,437	1693,886	0	0	14	0
479	12	2	480,423	1693,886	0	0	14	0
480	12	2	242,409	1693,886	0	0	14	0
481	12	2	4,395	1693,886	0	0	14	0
482	12	2	356,055	1935,474	0	0	16	0
483	12	2	118,041	1935,474	0	0	16	0
484	12	2	0	1935,474	0	0	16	0
485	12	2	0	2177,062	0	0	18	0
486	12	2	0	2418,65	0	0	20	0
487	12	2	0	2660,238	0	0	22	0
488	12	2	0	2901,826	0	0	24	0
489	12	2	0	2715,126	0	0	24	1
490	12	2	0	3143,414	0	0	26	0
491	12	2	0	2956,714	0	0	26	1
492	12	2	0	3385,002	0	0	28	0
493	12	2	0	3198,302	0	0	28	1
494	12	2	0	3439,89	0	0	30	1
495	13	3	0	3078,912	240,652	0	2	2
496	13	3	0	2837,324	240,652	0	2	2
497	13	3	0	2595,736	240,652	0	2	2
498	13	3	0	2354,148	240,652	0	2	2
499	13	3	0	2722,089	478,534	0	4	0
500	13	3	0	2480,501	478,534	0	4	0
501	13	3	0	2238,913	478,534	0	4	0
502	13	3	0	1997,325	478,534	0	4	0
503	13	3	0	2365,266	716,416	0	6	0
504	13	3	0	2123,678	716,416	0	6	0
505	13	3	0	1882,09	716,416	0	6	0
506	13	3	0	1640,502	716,416	0	6	0
507	13	3	0	2008,443	954,298	0	8	0
508	13	3	0	1766,855	954,298	0	8	0
509	13	3	0	1525,267	954,298	0	8	0
510	13	3	0	1283,679	954,298	0	8	0
511	13	3	0	1651,62	1192,18	0	10	0
512	13	3	0	1410,032	1192,18	0	10	0
513	13	3	0	1168,444	1192,18	0	10	0
514	13	3	0	926,856	1192,18	0	10	0
515	13	3	0	1294,797	1430,062	0	12	0
516	13	3	0	1053,209	1430,062	0	12	0
517	13	3	0	811,621	1430,062	0	12	0
518	13	3	0	570,033	1430,062	0	12	0
519	13	3	0	937,974	1667,944	0	14	0
520	13	3	0	696,386	1667,944	0	14	0
521	13	3	0	454,798	1667,944	0	14	0

522	13	3	0	213,21	1667,944	0	14	0
523	13	3	0	581,151	1905,826	0	16	0
524	13	3	0	339,563	1905,826	0	16	0
525	13	3	0	97,975	1905,826	0	16	0
526	13	3	0	0	1905,826	0	16	0
527	13	3	0	224,328	2143,708	0	18	0
528	13	3	0	0	2143,708	0	18	0
529	13	3	0	0	2381,59	0	20	0
530	13	3	0	0	2619,472	0	22	0
531	13	3	0	0	2543,772	0	22	1
532	13	3	0	0	2857,354	0	24	0
533	13	3	0	0	2781,654	0	24	1
534	13	3	0	0	3095,236	0	26	0
535	13	3	0	0	3019,536	0	26	1
536	13	3	0	0	3257,418	0	28	1
537	14	4	0	0	2898,237	239,454	2	2
538	14	4	0	0	2660,355	239,454	2	2
539	14	4	0	0	2422,473	239,454	2	2
540	14	4	0	0	2184,591	239,454	2	2
541	14	4	0	0	2543,211	476,138	4	0
542	14	4	0	0	2305,329	476,138	4	0
543	14	4	0	0	2067,447	476,138	4	0
544	14	4	0	0	1829,565	476,138	4	0
545	14	4	0	0	2188,185	712,822	6	0
546	14	4	0	0	1950,303	712,822	6	0
547	14	4	0	0	1712,421	712,822	6	0
548	14	4	0	0	1474,539	712,822	6	0
549	14	4	0	0	1833,159	949,506	8	0
550	14	4	0	0	1595,277	949,506	8	0
551	14	4	0	0	1357,395	949,506	8	0
552	14	4	0	0	1119,513	949,506	8	0
553	14	4	0	0	1478,133	1186,19	10	0
554	14	4	0	0	1240,251	1186,19	10	0
555	14	4	0	0	1002,369	1186,19	10	0
556	14	4	0	0	764,487	1186,19	10	0
557	14	4	0	0	1123,107	1422,874	12	0
558	14	4	0	0	885,225	1422,874	12	0
559	14	4	0	0	647,343	1422,874	12	0
560	14	4	0	0	409,461	1422,874	12	0
561	14	4	0	0	768,081	1659,558	14	0
562	14	4	0	0	530,199	1659,558	14	0
563	14	4	0	0	292,317	1659,558	14	0
564	14	4	0	0	54,435	1659,558	14	0
565	14	4	0	0	413,055	1896,242	16	0
566	14	4	0	0	175,173	1896,242	16	0
567	14	4	0	0	0	1896,242	16	0
568	14	4	0	0	58,029	2132,926	18	0
569	14	4	0	0	0	2132,926	18	0
570	14	4	0	0	0	2369,61	20	0
571	14	4	0	0	0	2224,91	20	1
572	14	4	0	0	0	2606,294	22	0
573	14	4	0	0	0	2461,594	22	1
574	14	4	0	0	0	2842,978	24	0
575	14	4	0	0	0	2698,278	24	1
576	14	4	0	0	0	2934,962	26	1
577	15	2	0	244,358	0	2568,425	2	2
578	15	2	0	244,358	0	2331,741	2	2
579	15	2	0	244,358	0	2095,057	2	2
580	15	2	0	244,358	0	1858,373	2	2

581	15	2	0	485,946	0	2206,043	4	0
582	15	2	0	485,946	0	1969,359	4	0
583	15	2	0	485,946	0	1732,675	4	0
584	15	2	0	485,946	0	1495,991	4	0
585	15	2	0	727,534	0	1843,661	6	0
586	15	2	0	727,534	0	1606,977	6	0
587	15	2	0	727,534	0	1370,293	6	0
588	15	2	0	727,534	0	1133,609	6	0
589	15	2	0	969,122	0	1481,279	8	0
590	15	2	0	969,122	0	1244,595	8	0
591	15	2	0	969,122	0	1007,911	8	0
592	15	2	0	969,122	0	771,227	8	0
593	15	2	0	1210,71	0	1118,897	10	0
594	15	2	0	1210,71	0	882,213	10	0
595	15	2	0	1210,71	0	645,529	10	0
596	15	2	0	1210,71	0	408,845	10	0
597	15	2	0	1452,298	0	756,515	12	0
598	15	2	0	1452,298	0	519,831	12	0
599	15	2	0	1452,298	0	283,147	12	0
600	15	2	0	1452,298	0	46,463	12	0
601	15	2	0	1693,886	0	394,133	14	0
602	15	2	0	1693,886	0	157,449	14	0
603	15	2	0	1693,886	0	0	14	0
604	15	2	0	1935,474	0	31,751	16	0
605	15	2	0	1935,474	0	0	16	0
606	15	2	0	2177,062	0	0	18	0
607	15	2	0	2418,65	0	0	20	0
608	15	2	0	2660,238	0	0	22	0
609	15	2	0	2901,826	0	0	24	0
610	15	2	0	2826,126	0	0	24	1
611	15	2	0	3143,414	0	0	26	0
612	15	2	0	3067,714	0	0	26	1
613	15	2	0	3385,002	0	0	28	0
614	15	2	0	3309,302	0	0	28	1
615	15	2	0	3550,89	0	0	30	1
616	16	3	0	3189,912	240,652	0	2	2
617	16	3	0	2948,324	240,652	0	2	2
618	16	3	0	2706,736	240,652	0	2	2
619	16	3	0	2465,148	240,652	0	2	2
620	16	3	0	2833,089	478,534	0	4	0
621	16	3	0	2591,501	478,534	0	4	0
622	16	3	0	2349,913	478,534	0	4	0
623	16	3	0	2108,325	478,534	0	4	0
624	16	3	0	2476,266	716,416	0	6	0
625	16	3	0	2234,678	716,416	0	6	0
626	16	3	0	1993,09	716,416	0	6	0
627	16	3	0	1751,502	716,416	0	6	0
628	16	3	0	2119,443	954,298	0	8	0
629	16	3	0	1877,855	954,298	0	8	0
630	16	3	0	1636,267	954,298	0	8	0
631	16	3	0	1394,679	954,298	0	8	0
632	16	3	0	1762,62	1192,18	0	10	0
633	16	3	0	1521,032	1192,18	0	10	0
634	16	3	0	1279,444	1192,18	0	10	0
635	16	3	0	1037,856	1192,18	0	10	0
636	16	3	0	1405,797	1430,062	0	12	0
637	16	3	0	1164,209	1430,062	0	12	0
638	16	3	0	922,621	1430,062	0	12	0
639	16	3	0	681,033	1430,062	0	12	0

640	16	3	0	1048,974	1667,944	0	14	0
641	16	3	0	807,386	1667,944	0	14	0
642	16	3	0	565,798	1667,944	0	14	0
643	16	3	0	324,21	1667,944	0	14	0
644	16	3	0	692,151	1905,826	0	16	0
645	16	3	0	450,563	1905,826	0	16	0
646	16	3	0	208,975	1905,826	0	16	0
647	16	3	0	0	1905,826	0	16	0
648	16	3	0	335,328	2143,708	0	18	0
649	16	3	0	93,74	2143,708	0	18	0
650	16	3	0	0	2143,708	0	18	0
651	16	3	0	0	2381,59	0	20	0
652	16	3	0	0	2619,472	0	22	0
653	16	3	0	0	2432,772	0	22	1
654	16	3	0	0	2857,354	0	24	0
655	16	3	0	0	2670,654	0	24	1
656	16	3	0	0	3095,236	0	26	0
657	16	3	0	0	2908,536	0	26	1
658	16	3	0	0	3146,418	0	28	1
659	17	1	240,784	0	2785,242	0	2	2
660	17	1	240,784	0	2547,36	0	2	2
661	17	1	240,784	0	2309,478	0	2	2
662	17	1	240,784	0	2071,596	0	2	2
663	17	1	478,798	0	2428,221	0	4	0
664	17	1	478,798	0	2190,339	0	4	0
665	17	1	478,798	0	1952,457	0	4	0
666	17	1	478,798	0	1714,575	0	4	0
667	17	1	716,812	0	2071,2	0	6	0
668	17	1	716,812	0	1833,318	0	6	0
669	17	1	716,812	0	1595,436	0	6	0
670	17	1	716,812	0	1357,554	0	6	0
671	17	1	954,826	0	1714,179	0	8	0
672	17	1	954,826	0	1476,297	0	8	0
673	17	1	954,826	0	1238,415	0	8	0
674	17	1	954,826	0	1000,533	0	8	0
675	17	1	1192,84	0	1357,158	0	10	0
676	17	1	1192,84	0	1119,276	0	10	0
677	17	1	1192,84	0	881,394	0	10	0
678	17	1	1192,84	0	643,512	0	10	0
679	17	1	1430,854	0	1000,137	0	12	0
680	17	1	1430,854	0	762,255	0	12	0
681	17	1	1430,854	0	524,373	0	12	0
682	17	1	1430,854	0	286,491	0	12	0
683	17	1	1668,868	0	643,116	0	14	0
684	17	1	1668,868	0	405,234	0	14	0
685	17	1	1668,868	0	167,352	0	14	0
686	17	1	1668,868	0	0	0	14	0
687	17	1	1906,882	0	286,095	0	16	0
688	17	1	1906,882	0	48,213	0	16	0
689	17	1	1906,882	0	0	0	16	0
690	17	1	2144,896	0	0	0	18	0
691	17	1	2382,91	0	0	0	20	0
692	17	1	2620,924	0	0	0	22	0
693	17	1	2545,224	0	0	0	22	1
694	17	1	2858,938	0	0	0	24	0
695	17	1	2783,238	0	0	0	24	1
696	17	1	3096,952	0	0	0	26	0
697	17	1	3021,252	0	0	0	26	1
698	17	1	3259,266	0	0	0	28	1

699	18	4	2900,085	0	0	239,454	2	2	
700	18	4	2662,071	0	0	239,454	2	2	
701	18	4	2424,057	0	0	239,454	2	2	
702	18	4	2186,043	0	0	239,454	2	2	
703	18	4	2545,059	0	0	476,138	4	0	
704	18	4	2307,045	0	0	476,138	4	0	
705	18	4	2069,031	0	0	476,138	4	0	
706	18	4	1831,017	0	0	476,138	4	0	
707	18	4	2190,033	0	0	712,822	6	0	
708	18	4	1952,019	0	0	712,822	6	0	
709	18	4	1714,005	0	0	712,822	6	0	
710	18	4	1475,991	0	0	712,822	6	0	
711	18	4	1835,007	0	0	949,506	8	0	
712	18	4	1596,993	0	0	949,506	8	0	
713	18	4	1358,979	0	0	949,506	8	0	
714	18	4	1120,965	0	0	949,506	8	0	
715	18	4	1479,981	0	0	1186,19	10	0	
716	18	4	1241,967	0	0	1186,19	10	0	
717	18	4	1003,953	0	0	1186,19	10	0	
718	18	4	765,939	0	0	1186,19	10	0	
719	18	4	1124,955	0	0	1422,874	12	0	
720	18	4	886,941	0	0	1422,874	12	0	
721	18	4	648,927	0	0	1422,874	12	0	
722	18	4	410,913	0	0	1422,874	12	0	
723	18	4	769,929	0	0	1659,558	14	0	
724	18	4	531,915	0	0	1659,558	14	0	
725	18	4	293,901	0	0	1659,558	14	0	
726	18	4	55,887	0	0	1659,558	14	0	
727	18	4	414,903	0	0	1896,242	16	0	
728	18	4	176,889	0	0	1896,242	16	0	
729	18	4	0	0	0	1896,242	16	0	
730	18	4	59,877	0	0	2132,926	18	0	
731	18	4	0	0	0	2132,926	18	0	
732	18	4	0	0	0	2369,61	20	0	
733	18	4	0	0	0	2224,91	20	1	
734	18	4	0	0	0	2606,294	22	0	
735	18	4	0	0	0	2461,594	22	1	
736	18	4	0	0	0	2842,978	24	0	
737	18	4	0	0	0	2698,278	24	1	
738	18	4	0	0	0	2934,962	26	1	
739	19	2	0	244,358	0	2568,425	2	2	
740	19	2	0	244,358	0	2331,741	2	2	
741	19	2	0	244,358	0	2095,057	2	2	
742	19	2	0	244,358	0	1858,373	2	2	
743	19	2	0	485,946	0	2206,043	4	0	
744	19	2	0	485,946	0	1969,359	4	0	
745	19	2	0	485,946	0	1732,675	4	0	
746	19	2	0	485,946	0	1495,991	4	0	
747	19	2	0	727,534	0	1843,661	6	0	
748	19	2	0	727,534	0	1606,977	6	0	
749	19	2	0	727,534	0	1370,293	6	0	
750	19	2	0	727,534	0	1133,609	6	0	
751	19	2	0	969,122	0	1481,279	8	0	
752	19	2	0	969,122	0	1244,595	8	0	
753	19	2	0	969,122	0	1007,911	8	0	
754	19	2	0	969,122	0	771,227	8	0	
755	19	2	0	1210,71	0	1118,897	10	0	
756	19	2	0	1210,71	0	882,213	10	0	
757	19	2	0	1210,71	0	645,529	10	0	

758	19	2	0	1210,71	0	408,845	10	0
759	19	2	0	1452,298	0	756,515	12	0
760	19	2	0	1452,298	0	519,831	12	0
761	19	2	0	1452,298	0	283,147	12	0
762	19	2	0	1452,298	0	46,463	12	0
763	19	2	0	1693,886	0	394,133	14	0
764	19	2	0	1693,886	0	157,449	14	0
765	19	2	0	1693,886	0	0	14	0
766	19	2	0	1935,474	0	31,751	16	0
767	19	2	0	1935,474	0	0	16	0
768	19	2	0	2177,062	0	0	18	0
769	19	2	0	2418,65	0	0	20	0
770	19	2	0	2660,238	0	0	22	0
771	19	2	0	2901,826	0	0	24	0
772	19	2	0	2826,126	0	0	24	1
773	19	2	0	3143,414	0	0	26	0
774	19	2	0	3067,714	0	0	26	1
775	19	2	0	3385,002	0	0	28	0
776	19	2	0	3309,302	0	0	28	1
777	19	2	0	3550,89	0	0	30	1
778	20	3	0	3189,912	240,652	0	2	2
779	20	3	0	2948,324	240,652	0	2	2
780	20	3	0	2706,736	240,652	0	2	2
781	20	3	0	2465,148	240,652	0	2	2
782	20	3	0	2833,089	478,534	0	4	0
783	20	3	0	2591,501	478,534	0	4	0
784	20	3	0	2349,913	478,534	0	4	0
785	20	3	0	2108,325	478,534	0	4	0
786	20	3	0	2476,266	716,416	0	6	0
787	20	3	0	2234,678	716,416	0	6	0
788	20	3	0	1993,09	716,416	0	6	0
789	20	3	0	1751,502	716,416	0	6	0
790	20	3	0	2119,443	954,298	0	8	0
791	20	3	0	1877,855	954,298	0	8	0
792	20	3	0	1636,267	954,298	0	8	0
793	20	3	0	1394,679	954,298	0	8	0
794	20	3	0	1762,62	1192,18	0	10	0
795	20	3	0	1521,032	1192,18	0	10	0
796	20	3	0	1279,444	1192,18	0	10	0
797	20	3	0	1037,856	1192,18	0	10	0
798	20	3	0	1405,797	1430,062	0	12	0
799	20	3	0	1164,209	1430,062	0	12	0
800	20	3	0	922,621	1430,062	0	12	0
801	20	3	0	681,033	1430,062	0	12	0
802	20	3	0	1048,974	1667,944	0	14	0
803	20	3	0	807,386	1667,944	0	14	0
804	20	3	0	565,798	1667,944	0	14	0
805	20	3	0	324,21	1667,944	0	14	0
806	20	3	0	692,151	1905,826	0	16	0
807	20	3	0	450,563	1905,826	0	16	0
808	20	3	0	208,975	1905,826	0	16	0
809	20	3	0	0	1905,826	0	16	0
810	20	3	0	335,328	2143,708	0	18	0
811	20	3	0	93,74	2143,708	0	18	0
812	20	3	0	0	2143,708	0	18	0
813	20	3	0	0	2381,59	0	20	0
814	20	3	0	0	2619,472	0	22	0
815	20	3	0	0	2432,772	0	22	1
816	20	3	0	0	2857,354	0	24	0

817	20	3	0	0	2670,654	0	24	1	
818	20	3	0	0	3095,236	0	26	0	
819	20	3	0	0	2908,536	0	26	1	
820	20	3	0	0	3146,418	0	28	1	
821	21	1	240,784	0	2785,242	0	2	2	
822	21	1	240,784	0	2547,36	0	2	2	
823	21	1	240,784	0	2309,478	0	2	2	
824	21	1	240,784	0	2071,596	0	2	2	
825	21	1	478,798	0	2428,221	0	4	0	
826	21	1	478,798	0	2190,339	0	4	0	
827	21	1	478,798	0	1952,457	0	4	0	
828	21	1	478,798	0	1714,575	0	4	0	
829	21	1	716,812	0	2071,2	0	6	0	
830	21	1	716,812	0	1833,318	0	6	0	
831	21	1	716,812	0	1595,436	0	6	0	
832	21	1	716,812	0	1357,554	0	6	0	
833	21	1	954,826	0	1714,179	0	8	0	
834	21	1	954,826	0	1476,297	0	8	0	
835	21	1	954,826	0	1238,415	0	8	0	
836	21	1	954,826	0	1000,533	0	8	0	
837	21	1	1192,84	0	1357,158	0	10	0	
838	21	1	1192,84	0	1119,276	0	10	0	
839	21	1	1192,84	0	881,394	0	10	0	
840	21	1	1192,84	0	643,512	0	10	0	
841	21	1	1430,854	0	1000,137	0	12	0	
842	21	1	1430,854	0	762,255	0	12	0	
843	21	1	1430,854	0	524,373	0	12	0	
844	21	1	1430,854	0	286,491	0	12	0	
845	21	1	1668,868	0	643,116	0	14	0	
846	21	1	1668,868	0	405,234	0	14	0	
847	21	1	1668,868	0	167,352	0	14	0	
848	21	1	1668,868	0	0	0	14	0	
849	21	1	1906,882	0	286,095	0	16	0	
850	21	1	1906,882	0	48,213	0	16	0	
851	21	1	1906,882	0	0	0	16	0	
852	21	1	2144,896	0	0	0	18	0	
853	21	1	2382,91	0	0	0	20	0	
854	21	1	2620,924	0	0	0	22	0	
855	21	1	2545,224	0	0	0	22	1	
856	21	1	2858,938	0	0	0	24	0	
857	21	1	2783,238	0	0	0	24	1	
858	21	1	3096,952	0	0	0	26	0	
859	21	1	3021,252	0	0	0	26	1	
860	21	1	3259,266	0	0	0	28	1	
861	22	4	2900,085	0	0	239,454	2	2	
862	22	4	2662,071	0	0	239,454	2	2	
863	22	4	2424,057	0	0	239,454	2	2	
864	22	4	2186,043	0	0	239,454	2	2	
865	22	4	2545,059	0	0	476,138	4	0	
866	22	4	2307,045	0	0	476,138	4	0	
867	22	4	2069,031	0	0	476,138	4	0	
868	22	4	1831,017	0	0	476,138	4	0	
869	22	4	2190,033	0	0	712,822	6	0	
870	22	4	1952,019	0	0	712,822	6	0	
871	22	4	1714,005	0	0	712,822	6	0	
872	22	4	1475,991	0	0	712,822	6	0	
873	22	4	1835,007	0	0	949,506	8	0	
874	22	4	1596,993	0	0	949,506	8	0	
875	22	4	1358,979	0	0	949,506	8	0	

876	22	4	1120,965	0	0	949,506	8	0
877	22	4	1479,981	0	0	1186,19	10	0
878	22	4	1241,967	0	0	1186,19	10	0
879	22	4	1003,953	0	0	1186,19	10	0
880	22	4	765,939	0	0	1186,19	10	0
881	22	4	1124,955	0	0	1422,874	12	0
882	22	4	886,941	0	0	1422,874	12	0
883	22	4	648,927	0	0	1422,874	12	0
884	22	4	410,913	0	0	1422,874	12	0
885	22	4	769,929	0	0	1659,558	14	0
886	22	4	531,915	0	0	1659,558	14	0
887	22	4	293,901	0	0	1659,558	14	0
888	22	4	55,887	0	0	1659,558	14	0
889	22	4	414,903	0	0	1896,242	16	0
890	22	4	176,889	0	0	1896,242	16	0
891	22	4	0	0	0	1896,242	16	0
892	22	4	59,877	0	0	2132,926	18	0
893	22	4	0	0	0	2132,926	18	0
894	22	4	0	0	0	2369,61	20	0
895	22	4	0	0	0	2224,91	20	1
896	22	4	0	0	0	2606,294	22	0
897	22	4	0	0	0	2461,594	22	1
898	22	4	0	0	0	2842,978	24	0
899	22	4	0	0	0	2698,278	24	1
900	22	4	0	0	0	2934,962	26	1
901	23	2	0	244,358	0	2568,425	2	2
902	23	2	0	244,358	0	2331,741	2	2
903	23	2	0	244,358	0	2095,057	2	2
904	23	2	0	244,358	0	1858,373	2	2
905	23	2	0	485,946	0	2206,043	4	0
906	23	2	0	485,946	0	1969,359	4	0
907	23	2	0	485,946	0	1732,675	4	0
908	23	2	0	485,946	0	1495,991	4	0
909	23	2	0	727,534	0	1843,661	6	0
910	23	2	0	727,534	0	1606,977	6	0
911	23	2	0	727,534	0	1370,293	6	0
912	23	2	0	727,534	0	1133,609	6	0
913	23	2	0	969,122	0	1481,279	8	0
914	23	2	0	969,122	0	1244,595	8	0
915	23	2	0	969,122	0	1007,911	8	0
916	23	2	0	969,122	0	771,227	8	0
917	23	2	0	1210,71	0	1118,897	10	0
918	23	2	0	1210,71	0	882,213	10	0
919	23	2	0	1210,71	0	645,529	10	0
920	23	2	0	1210,71	0	408,845	10	0
921	23	2	0	1452,298	0	756,515	12	0
922	23	2	0	1452,298	0	519,831	12	0
923	23	2	0	1452,298	0	283,147	12	0
924	23	2	0	1452,298	0	46,463	12	0
925	23	2	0	1693,886	0	394,133	14	0
926	23	2	0	1693,886	0	157,449	14	0
927	23	2	0	1693,886	0	0	14	0
928	23	2	0	1935,474	0	31,751	16	0
929	23	2	0	1935,474	0	0	16	0
930	23	2	0	2177,062	0	0	18	0
931	23	2	0	2418,65	0	0	20	0
932	23	2	0	2660,238	0	0	22	0
933	23	2	0	2901,826	0	0	24	0
934	23	2	0	2826,126	0	0	24	1

935	23	2	0	3143,414	0	0	26	0	
936	23	2	0	3067,714	0	0	26	1	
937	23	2	0	3385,002	0	0	28	0	
938	23	2	0	3309,302	0	0	28	1	
939	23	2	0	3550,89	0	0	30	1	
940	24	3	0	3189,912	240,652	0	2	2	
941	24	3	0	2948,324	240,652	0	2	2	
942	24	3	0	2706,736	240,652	0	2	2	
943	24	3	0	2465,148	240,652	0	2	2	
944	24	3	0	2833,089	478,534	0	4	0	
945	24	3	0	2591,501	478,534	0	4	0	
946	24	3	0	2349,913	478,534	0	4	0	
947	24	3	0	2108,325	478,534	0	4	0	
948	24	3	0	2476,266	716,416	0	6	0	
949	24	3	0	2234,678	716,416	0	6	0	
950	24	3	0	1993,09	716,416	0	6	0	
951	24	3	0	1751,502	716,416	0	6	0	
952	24	3	0	2119,443	954,298	0	8	0	
953	24	3	0	1877,855	954,298	0	8	0	
954	24	3	0	1636,267	954,298	0	8	0	
955	24	3	0	1394,679	954,298	0	8	0	
956	24	3	0	1762,62	1192,18	0	10	0	
957	24	3	0	1521,032	1192,18	0	10	0	
958	24	3	0	1279,444	1192,18	0	10	0	
959	24	3	0	1037,856	1192,18	0	10	0	
960	24	3	0	1405,797	1430,062	0	12	0	
961	24	3	0	1164,209	1430,062	0	12	0	
962	24	3	0	922,621	1430,062	0	12	0	
963	24	3	0	681,033	1430,062	0	12	0	
964	24	3	0	1048,974	1667,944	0	14	0	
965	24	3	0	807,386	1667,944	0	14	0	
966	24	3	0	565,798	1667,944	0	14	0	
967	24	3	0	324,21	1667,944	0	14	0	
968	24	3	0	692,151	1905,826	0	16	0	
969	24	3	0	450,563	1905,826	0	16	0	
970	24	3	0	208,975	1905,826	0	16	0	
971	24	3	0	0	1905,826	0	16	0	
972	24	3	0	335,328	2143,708	0	18	0	
973	24	3	0	93,74	2143,708	0	18	0	
974	24	3	0	0	2143,708	0	18	0	
975	24	3	0	0	2381,59	0	20	0	
976	24	3	0	0	2619,472	0	22	0	
977	24	3	0	0	2432,772	0	22	1	
978	24	3	0	0	2857,354	0	24	0	
979	24	3	0	0	2670,654	0	24	1	
980	24	3	0	0	3095,236	0	26	0	
981	24	3	0	0	2908,536	0	26	1	
982	24	3	0	0	3146,418	0	28	1	

3. Annex C: Resultats

La política a llarg termini és la següent:

Estat origen (O)	Estat destí (D)	Rendiment [s]
1	2	244,358
2	3	241,588
3	4	241,588
4	5	241,588
5	6	241,588
6	7	241,588
7	8	241,588
8	9	241,588
9	10	241,588
10	11	241,588
11	12	241,588
12	13	241,588
13	15	241,588
14	23	240,652
15	17	241,588
16	22	240,652
17	19	310,888
18	21	240,652
19	20	240,652
20	24	237,882
21	25	237,882
22	26	237,882
23	27	237,882
24	28	237,882
25	29	237,882
26	30	237,882
27	31	237,882
28	32	237,882
29	33	237,882
30	34	237,882
31	35	237,882
32	36	237,882
33	37	237,882
34	38	237,882
35	39	237,882
36	40	237,882
37	41	237,882
38	42	237,882
39	43	237,882
40	44	237,882
41	45	237,882

42	46	237,882
43	47	237,882
44	48	237,882
45	49	237,882
46	50	237,882
47	51	237,882
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909	913	241,588	959	963	237,882
910	914	241,588	960	964	237,882
911	915	241,588	961	965	237,882
912	916	241,588	962	966	237,882
913	917	241,588	963	967	237,882
914	918	241,588	964	968	237,882
915	919	241,588	965	969	237,882
916	920	241,588	966	970	237,882
917	921	241,588	967	971	237,882
918	922	241,588	968	972	237,882
919	923	241,588	969	973	237,882
920	924	241,588	970	974	237,882
921	925	241,588	971	974	237,882
922	926	241,588	972	975	237,882
923	927	241,588	973	975	237,882
924	927	241,588	974	975	237,882
925	928	241,588	975	976	237,882
926	929	241,588	976	978	237,882
927	929	241,588	977	106	244,358
928	930	241,588	978	980	237,882
929	930	241,588	979	105	244,358
930	931	241,588	980	982	381,182
931	932	241,588	981	104	244,358
932	933	241,588	982	103	244,358
933	935	241,588			
934	943	240,652			

4. Annex D: Càlculs iteratius

Exemple dels càlculs iteratius per obtenir la política a llarg termini.

Estat origen(O)	Estat destí(D)	w(O)	R(O,D)	w(D)+R(O,D)	Max[w(x)+R(O,x)]	Estat Max(x)	W(Max)	w(O)-w(O)	Correcte?	Guany
1	2	1,7294E-10	-244,358	-246,0777988	-246,0777988	2	1,7258E-10	-3,6167E-13	CORRECTE	-246,077799
2	3	-1,71979882	-241,588	-247,7975976	-247,7975976	3	-1,71979882	-2,7534E-13	CORRECTE	
3	4	-6,20959763	-241,588	-252,2873964	-252,2873964	4	-6,20959763	-5,5422E-13	CORRECTE	
4	5	-10,6993964	-241,588	-256,7771953	-256,7771953	5	-10,6993964	-7,887E-13	CORRECTE	
5	6	-15,1891953	-241,588	-261,2669941	-261,2669941	6	-15,1891953	3,0749E-12	CORRECTE	
6	7	-19,6789941	-241,588	-265,7567929	-265,7567929	7	-19,6789941	1,2186E-12	CORRECTE	
7	8	-24,1687929	-241,588	-270,2465917	-270,2465917	8	-24,1687929	5,9472E-12	CORRECTE	
8	9	-28,6585917	-241,588	-274,7363905	-274,7363905	9	-28,6585917	-1,5348E-12	CORRECTE	
9	10	-33,1483905	-241,588	-279,2261893	-279,2261893	10	-33,1483905	2,9416E-12	CORRECTE	
10	11	-37,6381893	-241,588	-283,7159882	-283,7159882	11	-37,6381893	-1,0445E-12	CORRECTE	
11	12	-42,1279882	-241,588	-288,205787	-288,205787	12	-42,1279882	1,89E-12	CORRECTE	
12	13	-46,617787	-241,588	-292,6955858	-292,6955858	13	-46,617787	1,8545E-12	CORRECTE	
13	15	-51,1075858	-241,588	-297,1853846	-297,1853846	15	-51,1075858	-5,7341E-12	CORRECTE	
14	23	4,72301775	-240,652	-241,3547811	-241,3547811	23	4,72301775	2,494E-12	CORRECTE	
15	17	-55,5973846	-241,588	-301,6751834	-301,6751834	17	-55,5973846	-5,528E-12	CORRECTE	
16	22	4,72301775	-240,652	-241,3547811	-241,3547811	22	4,72301775	2,494E-12	CORRECTE	
17	19	-60,0871834	-310,888	-306,1649822	-306,1649822	19	-60,0871834	9,8765E-12	CORRECTE	
18	21	4,72301775	-240,652	-241,3547811	-241,3547811	21	4,72301775	2,494E-12	CORRECTE	
19	20	4,72301775	-240,652	-241,3547811	-241,3547811	20	4,72301775	6,132E-12	CORRECTE	
20	24	-0,70278106	-237,882	-246,7805799	-246,7805799	24	-0,70278106	-1,2324E-11	CORRECTE	
21	25	-0,70278106	-237,882	-246,7805799	-246,7805799	25	-0,70278106	-5,5032E-12	CORRECTE	
22	26	-0,70278106	-237,882	-246,7805799	-246,7805799	26	-0,70278106	-5,5032E-12	CORRECTE	
23	27	-0,70278106	-237,882	-246,7805799	-246,7805799	27	-0,70278106	-5,5032E-12	CORRECTE	
24	28	-8,89857988	-237,882	-254,9763787	-254,9763787	28	-8,89857988	-6,0929E-13	CORRECTE	
25	29	-8,89857988	-237,882	-254,9763787	-254,9763787	29	-8,89857988	2,5729E-12	CORRECTE	
26	30	-8,89857988	-237,882	-254,9763787	-254,9763787	30	-8,89857988	2,5729E-12	CORRECTE	
27	31	-8,89857988	-237,882	-254,9763787	-254,9763787	31	-8,89857988	2,5729E-12	CORRECTE	
28	32	-17,0943787	-237,882	-263,1721775	-263,1721775	32	-17,0943787	1,306E-11	CORRECTE	
29	33	-17,0943787	-237,882	-263,1721775	-263,1721775	33	-17,0943787	6,6933E-12	CORRECTE	
30	34	-17,0943787	-237,882	-263,1721775	-263,1721775	34	-17,0943787	6,6933E-12	CORRECTE	
31	35	-17,0943787	-237,882	-263,1721775	-263,1721775	35	-17,0943787	6,6933E-12	CORRECTE	
32	36	-25,2901775	-237,882	-271,3679763	-271,3679763	36	-25,2901775	-1,0075E-11	CORRECTE	
33	37	-25,2901775	-237,882	-271,3679763	-271,3679763	37	-25,2901775	-1,0075E-11	CORRECTE	
34	38	-25,2901775	-237,882	-271,3679763	-271,3679763	38	-25,2901775	-1,0075E-11	CORRECTE	
35	39	-25,2901775	-237,882	-271,3679763	-271,3679763	39	-25,2901775	-1,0075E-11	CORRECTE	
36	40	-33,4859763	-237,882	-279,5637751	-279,5637751	40	-33,4859763	-1,0367E-11	CORRECTE	

5. Annex E: Resultats de la simulació

La següent taula mostra els resultats de la simulació:

Nº parades	Etat inicial	Voltres Pilot	Voltres equip	Stacació inicial	Stacació final	Típus de volta	Típus paraula	Rend. Acumulat (s)	Temps per finalització (s)	Temps (hours)	Temps (minuts)	
0	1	1	2	Jorge	2	Box	Pista	Sortir de box	244,358	24	0	
0	2	2	3	Jorge	4	4	Pista	Continuar	241,588	23	55	
0	3	3	4	Jorge	6	6	Pista	Continuar	241,588	23	51	
0	4	4	5	Jorge	8	8	Pista	Continuar	241,588	23	47	
0	5	5	6	Jorge	10	10	Pista	Continuar	241,588	23	43	
0	6	6	7	Jorge	12	12	Pista	Continuar	241,588	23	39	
0	7	7	8	Jorge	14	14	Pista	Continuar	241,588	23	35	
0	8	8	9	Jorge	16	16	Pista	Continuar	241,588	23	31	
0	9	9	10	Jorge	18	18	Pista	Continuar	241,588	23	27	
0	10	10	11	Jorge	20	20	Pista	Continuar	241,588	23	23	
0	11	11	12	Jorge	22	22	Pista	Continuar	241,588	23	19	
0	12	12	13	Jorge	24	24	Pista	Continuar	241,588	23	15	
0	13	13	15	Jorge	26	26	Pista	Continuar	241,588	23	11	
0	14	15	17	Jorge	28	28	Pista	Continuar	241,588	23	7	
0	15	17	19	Jorge	30	30	Pista	Box	Entrar a box	30,888	22	
1	16	19	20	Fernando	2	32	Box	Sortir de box	240,652	3936,542	22	
1	17	20	24	Fernando	4	34	Pista	Continuar	237,882	4174,424	22	
1	18	24	28	Fernando	6	36	Pista	Continuar	237,882	4412,306	22	
1	19	28	32	Fernando	8	38	Pista	Continuar	237,882	4650,188	22	
1	20	32	36	Fernando	10	40	Pista	Continuar	237,882	4888,07	22	
1	21	36	40	Fernando	12	42	Pista	Continuar	237,882	5125,952	22	
1	22	40	44	Fernando	14	44	Pista	Continuar	237,882	5363,834	22	
1	23	44	48	Fernando	16	46	Pista	Continuar	237,882	5601,716	22	
1	24	48	52	Fernando	18	48	Pista	Continuar	237,882	5839,598	22	
1	25	52	55	Fernando	20	50	Pista	Continuar	237,882	6077,48	22	
1	26	55	56	Fernando	22	52	Pista	Continuar	237,882	6315,362	22	
1	27	56	58	Fernando	24	54	Pista	Continuar	237,882	6553,244	22	
1	28	58	60	Fernando	26	56	Pista	Continuar	237,882	6791,126	22	
1	29	60	62	Fernando	28	58	Pista	Box	Entrar a box	353,182	0	
2	30	62	63	David	2	60	Box	Pista	Sortir de box	240,784	7385,092	21
2	31	63	67	David	4	62	Pista	Continuar	238,014	7623,106	21	
2	32	67	71	David	6	64	Pista	Continuar	238,014	7861,12	21	
2	33	71	75	David	8	66	Pista	Continuar	238,014	8099,134	21	
2	34	75	79	David	10	68	Pista	Continuar	238,014	8337,148	21	
2	35	79	83	David	12	70	Pista	Continuar	238,014	8575,162	21	
2	36	83	87	David	14	72	Pista	Continuar	238,014	8813,176	21	

2	37	87	91	David	16	74	Pista	Pista	Continuar		238,014	905,19	77348,81	21	29
2	38	91	94	David	18	76	Pista	Pista	Continuar		238,014	9289,204	77110,796	21	25
2	39	94	95	David	20	78	Pista	Pista	Continuar		238,014	9527,218	76872,782	21	21
2	40	95	96	David	22	80	Pista	Pista	Continuar		238,014	9765,232	76634,768	21	17
2	41	96	98	David	24	82	Pista	Pista	Continuar		238,014	10003,246	76396,754	21	13
2	42	98	100	David	26	84	Pista	Pista	Continuar		238,014	10241,26	76158,74	21	9
2	43	100	102	David	28	86	Pista	Box	Entrar a box	Combustible	307,314	10548,574	75851,426	21	4
3	44	102	132	Carlos	2	88	Box	Pista	Sortir de box		239,454	10788,028	75611,972	21	0
3	45	132	136	Carlos	4	90	Pista	Pista	Continuar		236,684	11024,712	75375,288	20	56
3	46	136	140	Carlos	6	92	Pista	Pista	Continuar		236,684	11261,396	75138,604	20	52
3	47	140	144	Carlos	8	94	Pista	Pista	Continuar		236,684	11498,08	74901,92	20	48
3	48	144	148	Carlos	10	96	Pista	Pista	Continuar		236,684	11734,764	74665,236	20	44
3	49	148	152	Carlos	12	98	Pista	Pista	Continuar		236,684	11971,448	74428,552	20	40
3	50	152	156	Carlos	14	100	Pista	Pista	Continuar		236,684	12208,132	74191,868	20	36
3	51	156	160	Carlos	16	102	Pista	Pista	Continuar		236,684	12444,816	73955,184	20	32
3	52	160	163	Carlos	18	104	Pista	Pista	Continuar		236,684	12681,5	73718,5	20	28
3	53	163	165	Carlos	20	106	Pista	Pista	Continuar		236,684	12918,184	73481,816	20	24
3	54	165	167	Carlos	22	108	Pista	Pista	Continuar		236,684	13154,868	73245,132	20	20
3	55	167	169	Carlos	24	110	Pista	Pista	Continuar		236,684	13391,552	73008,448	20	16
3	56	169	171	Carlos	26	112	Pista	Box	Entrar a box	Pneum. 2 Rodes	379,984	13771,536	72628,464	20	10
4	57	171	172	Jorge	2	114	Box	Pista	Sortir de box		244,358	14015,894	72384,106	20	6
4	58	172	176	Jorge	4	116	Pista	Pista	Continuar		241,588	14257,482	72142,518	20	2
4	59	176	180	Jorge	6	118	Pista	Pista	Continuar		241,588	14499,07	71900,933	19	58
4	60	180	184	Jorge	8	120	Pista	Pista	Continuar		241,588	14740,658	71659,342	19	54
4	61	184	188	Jorge	10	122	Pista	Pista	Continuar		241,588	14982,246	71417,754	19	50
4	62	188	192	Jorge	12	124	Pista	Pista	Continuar		241,588	15223,834	71176,166	19	46
4	63	192	196	Jorge	14	126	Pista	Pista	Continuar		241,588	15465,422	70934,578	19	42
4	64	196	199	Jorge	16	128	Pista	Pista	Continuar		241,588	15707,01	70692,99	19	38
4	65	199	200	Jorge	18	130	Pista	Pista	Continuar		241,588	15948,598	70451,402	19	34
4	66	200	201	Jorge	20	132	Pista	Pista	Continuar		241,588	16190,186	70209,814	19	30
4	67	201	202	Jorge	22	134	Pista	Pista	Continuar		241,588	16431,774	69968,226	19	26
4	68	202	203	Jorge	24	136	Pista	Pista	Continuar		241,588	16673,362	69726,638	19	22
4	69	203	205	Jorge	26	138	Pista	Pista	Continuar		241,588	16914,95	69485,05	19	18
4	70	205	207	Jorge	28	140	Pista	Pista	Continuar		241,588	17156,538	69243,462	19	14
4	71	207	209	Jorge	30	142	Pista	Box	Entrar a box	Combustible	310,888	17467,426	68932,574	19	8
5	72	209	210	Fernando	2	144	Box	Pista	Sortir de box		240,652	17708,078	68691,92	19	4
5	73	210	214	Fernando	4	146	Pista	Pista	Continuar		237,882	17945,96	68454,04	19	0
5	74	214	218	Fernando	6	148	Pista	Pista	Continuar		237,882	18183,842	68216,158	18	56
5	75	218	222	Fernando	8	150	Pista	Pista	Continuar		237,882	18421,724	67978,276	18	52
5	76	222	226	Fernando	10	152	Pista	Pista	Continuar		237,882	18659,606	67740,394	18	49
5	77	226	230	Fernando	12	154	Pista	Pista	Continuar		237,882	18887,488	67502,512	18	45

5	78	230	234	Fernando	14	156	Pista	Continuar		237,882	19135,37	67264,63	18	41
5	79	234	238	Fernando	16	158	Pista	Continuar		237,882	19373,252	67026,748	18	37
5	80	238	242	Fernando	18	160	Pista	Continuar		237,882	19611,134	66788,866	18	33
5	81	242	245	Fernando	20	162	Pista	Continuar		237,882	19849,016	66550,984	18	29
5	82	245	246	Fernando	22	164	Pista	Continuar		237,882	20086,898	66313,102	18	25
5	83	246	248	Fernando	24	166	Pista	Continuar		237,882	20324,78	66075,22	18	21
5	84	248	250	Fernando	26	168	Pista	Continuar		237,882	20562,662	65837,338	18	17
5	85	250	252	Fernando	28	170	Pista	Box	Entrar a box	353,182	20915,844	65484,156	18	11
6	86	252	253	David	2	172	Box	Pista	Sortir de box	240,784	21156,628	65243,372	18	7
6	87	253	257	David	4	174	Pista	Pista	Continuar	238,014	21394,642	65005,358	18	3
6	88	257	261	David	6	176	Pista	Pista	Continuar	238,014	21632,656	64767,344	17	59
6	89	261	265	David	8	178	Pista	Pista	Continuar	238,014	21870,67	64529,33	17	55
6	90	265	269	David	10	180	Pista	Pista	Continuar	238,014	22108,684	64291,316	17	51
6	91	269	273	David	12	182	Pista	Pista	Continuar	238,014	22346,698	64053,302	17	47
6	92	273	277	David	14	184	Pista	Pista	Continuar	238,014	22584,712	63815,288	17	43
6	93	277	281	David	16	186	Pista	Pista	Continuar	238,014	22822,726	63577,274	17	39
6	94	281	284	David	18	188	Pista	Pista	Continuar	238,014	23060,74	63339,26	17	35
6	95	284	285	David	20	190	Pista	Pista	Continuar	238,014	23298,754	63101,246	17	31
6	96	285	286	David	22	192	Pista	Pista	Continuar	238,014	23536,768	62853,232	17	27
6	97	286	288	David	24	194	Pista	Pista	Continuar	238,014	23774,782	62625,218	17	23
6	98	288	290	David	26	196	Pista	Pista	Continuar	238,014	24012,796	62387,204	17	19
6	99	290	292	David	28	198	Pista	Box	Entrar a box	307,314	24320,11	62079,89	17	14
7	100	292	293	Carlos	2	200	Box	Pista	Sortir de box	239,454	24559,564	61840,436	17	10
7	101	293	297	Carlos	4	202	Pista	Pista	Continuar	236,684	24796,248	61603,752	17	6
7	102	297	301	Carlos	6	204	Pista	Pista	Continuar	236,684	25032,932	61367,068	17	2
7	103	301	305	Carlos	8	206	Pista	Pista	Continuar	236,684	25269,616	61130,384	16	58
7	104	305	309	Carlos	10	208	Pista	Pista	Continuar	236,684	25506,3	60893,7	16	54
7	105	309	313	Carlos	12	210	Pista	Pista	Continuar	236,684	25742,984	60657,016	16	50
7	106	313	317	Carlos	14	212	Pista	Pista	Continuar	236,684	25979,668	60420,332	16	47
7	107	317	321	Carlos	16	214	Pista	Pista	Continuar	236,684	26216,352	60183,648	16	43
7	108	321	324	Carlos	18	216	Pista	Pista	Continuar	236,684	26453,036	59946,964	16	39
7	109	324	326	Carlos	20	218	Pista	Pista	Continuar	236,684	26689,72	59710,28	16	35
7	110	326	328	Carlos	22	220	Pista	Pista	Continuar	236,684	26926,404	59473,596	16	31
7	111	328	330	Carlos	24	222	Pista	Pista	Continuar	236,684	27163,088	59236,912	16	27
7	112	330	332	Carlos	26	224	Pista	Box	Entrar a box	379,984	27543,072	58856,928	16	20
8	113	332	333	Jorge	2	226	Box	Pista	Sortir de box	244,358	27787,43	58612,57	16	16
8	114	333	337	Jorge	4	228	Pista	Pista	Continuar	241,588	28029,018	58370,982	16	12
8	115	337	341	Jorge	6	230	Pista	Pista	Continuar	241,588	28270,606	58129,394	16	8
8	116	341	345	Jorge	8	232	Pista	Pista	Continuar	241,588	28512,194	57887,806	16	4
8	117	345	349	Jorge	10	234	Pista	Pista	Continuar	241,588	28753,782	57646,218	16	0
8	118	349	353	Jorge	12	236	Pista	Pista	Continuar	241,588	28995,37	57404,63	15	56

8	119	353	357	Jorge	14	238	Pista	Pista	Continuar		241,588	29236,958	57163,042	15	52
8	120	357	360	Jorge	16	240	Pista	Pista	Continuar		241,588	29478,546	56921,454	15	48
8	121	360	361	Jorge	18	242	Pista	Pista	Continuar		241,588	29720,134	56679,866	15	44
8	122	361	362	Jorge	20	244	Pista	Pista	Continuar		241,588	29961,722	56438,278	15	40
8	123	362	363	Jorge	22	246	Pista	Pista	Continuar		241,588	30203,31	56196,69	15	36
8	124	363	364	Jorge	24	248	Pista	Pista	Continuar		241,588	30444,898	55955,102	15	32
8	125	364	366	Jorge	26	250	Pista	Pista	Continuar		241,588	30686,486	55713,514	15	28
8	126	366	368	Jorge	28	252	Pista	Pista	Continuar		241,588	30928,074	55471,926	15	24
8	127	368	370	Jorge	30	254	Pista	Box	Entrar a box	Combustible	310,888	31238,962	55161,038	15	19
9	128	370	371	Fernando	2	256	Box	Pista	Sortir de box		240,652	31479,614	54920,386	15	15
9	129	371	375	Fernando	4	258	Pista	Pista	Continuar		237,882	31717,496	54682,504	15	11
9	130	375	379	Fernando	6	260	Pista	Pista	Continuar		237,882	31955,378	54444,622	15	7
9	131	379	383	Fernando	8	262	Pista	Pista	Continuar		237,882	32193,26	54206,74	15	3
9	132	383	387	Fernando	10	264	Pista	Pista	Continuar		237,882	32431,142	53968,858	14	59
9	133	387	391	Fernando	12	266	Pista	Pista	Continuar		237,882	32669,024	53730,976	14	55
9	134	391	395	Fernando	14	268	Pista	Pista	Continuar		237,882	32906,906	53493,094	14	51
9	135	395	399	Fernando	16	270	Pista	Pista	Continuar		237,882	33144,788	53255,212	14	47
9	136	399	403	Fernando	18	272	Pista	Pista	Continuar		237,882	33382,67	53017,33	14	43
9	137	403	406	Fernando	20	274	Pista	Pista	Continuar		237,882	33620,552	52779,448	14	39
9	138	406	407	Fernando	22	276	Pista	Pista	Continuar		237,882	33858,434	52541,566	14	35
9	139	407	409	Fernando	24	278	Pista	Pista	Continuar		237,882	34096,316	52303,684	14	31
9	140	409	411	Fernando	26	280	Pista	Pista	Continuar		237,882	34334,198	52065,802	14	27
9	141	411	413	Fernando	28	282	Pista	Box	Entrar a box	Pneum. posterior	353,182	34687,38	51712,62	14	21
10	142	413	414	David	2	284	Box	Pista	Sortir de box		240,784	34928,164	51471,836	14	17
10	143	414	418	David	4	286	Pista	Pista	Continuar		238,014	35166,178	51233,822	14	13
10	144	418	422	David	6	288	Pista	Pista	Continuar		238,014	35404,192	50995,808	14	9
10	145	422	426	David	8	290	Pista	Pista	Continuar		238,014	35642,206	50757,794	14	5
10	146	426	430	David	10	292	Pista	Pista	Continuar		238,014	35880,22	50519,78	14	1
10	147	430	434	David	12	294	Pista	Pista	Continuar		238,014	36118,234	50281,766	13	58
10	148	434	438	David	14	296	Pista	Pista	Continuar		238,014	36356,248	50043,752	13	54
10	149	438	442	David	16	298	Pista	Pista	Continuar		238,014	36594,262	49805,738	13	50
10	150	442	445	David	18	300	Pista	Pista	Continuar		238,014	36832,276	49567,724	13	46
10	151	445	446	David	20	302	Pista	Pista	Continuar		238,014	37070,29	493329,71	13	42
10	152	446	447	David	22	304	Pista	Pista	Continuar		238,014	37308,304	49091,696	13	38
10	153	447	449	David	24	306	Pista	Pista	Continuar		238,014	37546,318	48853,682	13	34
10	154	449	451	David	26	308	Pista	Pista	Continuar		238,014	37784,332	48615,668	13	30
10	155	451	453	David	28	310	Pista	Box	Entrar a box	Combustible	307,314	38091,646	48308,354	13	25
11	156	453	454	Jorge	2	312	Box	Pista	Sortir de box		244,358	38336,004	48063,996	13	21
11	157	454	458	Jorge	4	314	Pista	Pista	Continuar		241,588	38577,592	47822,408	13	17
11	158	458	462	Jorge	6	316	Pista	Pista	Continuar		241,588	38819,18	47580,82	13	13
11	159	462	466	Jorge	8	318	Pista	Pista	Continuar		241,588	39060,768	47339,232	13	8

11	160	466	470	Jorge	10	320	Pista	Continuar		241,588	39302,356	47097,644	13	4	
11	161	470	474	Jorge	12	322	Pista	Continuar		241,588	39543,944	46856,056	13	0	
11	162	474	478	Jorge	14	324	Pista	Continuar		241,588	39785,532	46614,468	12	56	
11	163	478	482	Jorge	16	326	Pista	Continuar		241,588	40027,112	46372,88	12	52	
11	164	482	485	Jorge	18	328	Pista	Continuar		241,588	40268,708	46131,292	12	48	
11	165	485	486	Jorge	20	330	Pista	Continuar		241,588	40510,296	45889,704	12	44	
11	166	486	487	Jorge	22	332	Pista	Continuar		241,588	40751,884	45648,116	12	40	
11	167	487	488	Jorge	24	334	Pista	Continuar		241,588	40993,472	45406,528	12	36	
11	168	488	490	Jorge	26	336	Pista	Continuar		241,588	41235,06	45164,94	12	32	
11	169	490	492	Jorge	28	338	Pista	Continuar		241,588	41476,648	44923,352	12	28	
11	170	492	494	Jorge	30	340	Pista	Box	Entrar a box	Pneum. 2 Rodes	384,888	41851,536	44538,464	12	22
12	171	494	495	Fernando	2	342	Box	Pista	Sortir de box		240,652	42102,188	44297,812	12	18
12	172	495	499	Fernando	4	344	Pista	Pista	Continuar		237,882	42340,07	44059,93	12	14
12	173	499	503	Fernando	6	346	Pista	Pista	Continuar		237,882	42577,952	43822,048	12	10
12	174	503	507	Fernando	8	348	Pista	Pista	Continuar		237,882	42815,834	43584,166	12	6
12	175	507	511	Fernando	10	350	Pista	Pista	Continuar		237,882	43053,716	43346,284	12	2
12	176	511	515	Fernando	12	352	Pista	Pista	Continuar		237,882	43291,598	43108,402	11	58
12	177	515	519	Fernando	14	354	Pista	Pista	Continuar		237,882	43529,48	42870,52	11	54
12	178	519	523	Fernando	16	356	Pista	Pista	Continuar		237,882	43767,362	42632,638	11	50
12	179	523	527	Fernando	18	358	Pista	Pista	Continuar		237,882	44005,244	42394,756	11	46
12	180	527	529	Fernando	20	360	Pista	Pista	Continuar		237,882	44243,126	42156,874	11	42
12	181	529	530	Fernando	22	362	Pista	Pista	Continuar		237,882	44481,008	41918,992	11	38
12	182	530	532	Fernando	24	364	Pista	Pista	Continuar		237,882	44718,89	41681,11	11	34
12	183	532	534	Fernando	26	366	Pista	Pista	Continuar		237,882	44956,772	41443,228	11	30
12	184	534	536	Fernando	28	368	Pista	Box	Entrar a box	Combustible	307,182	45263,954	41136,046	11	25
13	185	536	537	Carlos	2	370	Box	Pista	Sortir de box		239,454	45503,408	40896,592	11	21
13	186	537	541	Carlos	4	372	Pista	Pista	Continuar		236,684	45740,092	40659,908	11	17
13	187	541	545	Carlos	6	374	Pista	Pista	Continuar		236,684	45976,776	40423,224	11	13
13	188	545	549	Carlos	8	376	Pista	Pista	Continuar		236,684	46213,46	40186,54	11	9
13	189	549	553	Carlos	10	378	Pista	Pista	Continuar		236,684	46450,144	39949,856	11	5
13	190	553	557	Carlos	12	380	Pista	Pista	Continuar		236,684	46686,828	39713,172	11	1
13	191	557	561	Carlos	14	382	Pista	Pista	Continuar		236,684	46933,512	39476,488	10	57
13	192	561	565	Carlos	16	384	Pista	Pista	Continuar		236,684	47160,196	39239,804	10	53
13	193	565	568	Carlos	18	386	Pista	Pista	Continuar		236,684	47396,88	39003,12	10	50
13	194	568	570	Carlos	20	388	Pista	Pista	Continuar		236,684	47633,564	38766,436	10	46
13	195	570	572	Carlos	22	390	Pista	Pista	Continuar		236,684	47870,248	38529,752	10	42
13	196	572	574	Carlos	24	392	Pista	Pista	Continuar		236,684	48106,932	38293,068	10	38
13	197	574	576	Carlos	26	394	Pista	Box	Entrar a box	Pneum. posterior	351,984	48458,916	37941,084	10	32
14	198	576	577	Jorge	2	396	Box	Pista	Sortir de box		244,358	48703,274	37696,726	10	28
14	199	577	581	Jorge	4	398	Pista	Pista	Continuar		241,588	48944,862	37455,138	10	24
14	200	581	585	Jorge	6	400	Pista	Pista	Continuar		241,588	49186,45	37213,55	10	20

14	201	585	589	Jorge	8	402	Pista	Pista	Continuar		241,588	49428,038	36971,962	10	16
14	202	589	593	Jorge	10	404	Pista	Pista	Continuar		241,588	49669,626	36730,374	10	12
14	203	593	597	Jorge	12	406	Pista	Pista	Continuar		241,588	49911,214	36488,786	10	8
14	204	597	601	Jorge	14	408	Pista	Pista	Continuar		241,588	50152,802	36247,198	10	4
14	205	601	604	Jorge	16	410	Pista	Pista	Continuar		241,588	50394,39	36005,61	10	0
14	206	604	606	Jorge	18	412	Pista	Pista	Continuar		241,588	50635,978	35764,022	9	56
14	207	606	607	Jorge	20	414	Pista	Pista	Continuar		241,588	50877,566	35522,434	9	52
14	208	607	608	Jorge	22	416	Pista	Pista	Continuar		241,588	51119,154	35280,846	9	48
14	209	608	609	Jorge	24	418	Pista	Pista	Continuar		241,588	51360,742	35039,258	9	43
14	210	609	611	Jorge	26	420	Pista	Pista	Continuar		241,588	51602,33	34797,67	9	39
14	211	611	613	Jorge	28	422	Pista	Pista	Continuar		241,588	51843,918	34556,082	9	35
14	212	613	615	Jorge	30	424	Pista	Box	Entrar a box	Combustible	310,888	52154,806	34245,194	9	30
15	213	615	616	Fernando	2	426	Box	Pista	Sortir de box		240,652	52395,458	34004,542	9	26
15	214	616	620	Fernando	4	428	Pista	Pista	Continuar		237,882	52633,34	33766,66	9	22
15	215	620	624	Fernando	6	430	Pista	Pista	Continuar		237,882	52871,222	33528,778	9	18
15	216	624	628	Fernando	8	432	Pista	Pista	Continuar		237,882	53109,104	33290,896	9	14
15	217	628	632	Fernando	10	434	Pista	Pista	Continuar		237,882	53346,986	33053,014	9	10
15	218	632	636	Fernando	12	436	Pista	Pista	Continuar		237,882	53584,868	32815,132	9	6
15	219	636	640	Fernando	14	438	Pista	Pista	Continuar		237,882	53822,75	32577,25	9	2
15	220	640	644	Fernando	16	440	Pista	Pista	Continuar		237,882	54060,632	32339,368	8	58
15	221	644	648	Fernando	18	442	Pista	Pista	Continuar		237,882	54298,514	32101,486	8	55
15	222	648	651	Fernando	20	444	Pista	Pista	Continuar		237,882	54536,396	31863,604	8	51
15	223	651	652	Fernando	22	446	Pista	Pista	Continuar		237,882	54774,278	31625,722	8	47
15	224	652	654	Fernando	24	448	Pista	Pista	Continuar		237,882	55012,16	31387,84	8	43
15	225	654	656	Fernando	26	450	Pista	Pista	Continuar		237,882	55250,042	31149,958	8	39
15	226	656	658	Fernando	28	452	Pista	Box	Entrar a box	Pneum. 2 Rodes	381,182	55631,224	30768,776	8	32
16	227	658	659	David	2	454	Box	Pista	Sortir de box		240,784	55872,008	30527,992	8	28
16	228	659	663	David	4	456	Pista	Pista	Continuar		238,014	56110,022	30289,978	8	24
16	229	663	667	David	6	458	Pista	Pista	Continuar		238,014	56348,036	30051,964	8	20
16	230	667	671	David	8	460	Pista	Pista	Continuar		238,014	56586,05	29813,95	8	16
16	231	671	675	David	10	462	Pista	Pista	Continuar		238,014	56824,064	29575,936	8	12
16	232	675	679	David	12	464	Pista	Pista	Continuar		238,014	57062,078	29337,922	8	8
16	233	679	683	David	14	466	Pista	Pista	Continuar		238,014	57300,092	29099,908	8	4
16	234	683	687	David	16	468	Pista	Pista	Continuar		238,014	57538,106	28861,894	8	1
16	235	687	690	David	18	470	Pista	Pista	Continuar		238,014	57776,12	28623,88	7	57
16	236	690	691	David	20	472	Pista	Pista	Continuar		238,014	58014,134	28385,866	7	53
16	237	691	692	David	22	474	Pista	Pista	Continuar		238,014	58252,148	28147,852	7	49
16	238	692	694	David	24	476	Pista	Pista	Continuar		238,014	58490,162	27909,838	7	45
16	239	694	696	David	26	478	Pista	Pista	Continuar		238,014	58728,176	27671,824	7	41
16	240	696	698	David	28	480	Pista	Box	Entrar a box	Combustible	307,314	59035,49	27364,51	7	36
17	241	698	699	Carlos	2	482	Box	Pista	Sortir de box		239,454	59274,944	27125,056	7	32

17	242	699	703	Carlos	4	484	Pista	Pista	Continuar		236,684	59511,628	26888,372	7	28
17	243	703	707	Carlos	6	486	Pista	Pista	Continuar		236,684	59748,312	26651,688	7	24
17	244	707	711	Carlos	8	488	Pista	Pista	Continuar		236,684	59984,996	26415,004	7	20
17	245	711	715	Carlos	10	490	Pista	Pista	Continuar		236,684	60221,68	26178,32	7	16
17	246	715	719	Carlos	12	492	Pista	Pista	Continuar		236,684	60458,364	25941,636	7	12
17	247	719	723	Carlos	14	494	Pista	Pista	Continuar		236,684	60695,048	25704,952	7	8
17	248	723	727	Carlos	16	496	Pista	Pista	Continuar		236,684	60931,732	25468,268	7	4
17	249	727	730	Carlos	18	498	Pista	Pista	Continuar		236,684	61168,416	25231,584	7	0
17	250	730	732	Carlos	20	500	Pista	Pista	Continuar		236,684	61405,1	24994,9	6	56
17	251	732	734	Carlos	22	502	Pista	Pista	Continuar		236,684	61641,784	24758,216	6	52
17	252	734	736	Carlos	24	504	Pista	Pista	Continuar		236,684	61878,468	24521,532	6	48
17	253	736	738	Carlos	26	506	Pista	Box	Entrar a box	Pneum. posterior	351,984	62230,452	24169,548	6	42
18	254	738	739	Jorge	2	508	Box	Pista	Sortir de box		244,358	62474,81	23925,19	6	38
18	255	739	743	Jorge	4	510	Pista	Pista	Continuar		241,588	62716,398	23683,602	6	34
18	256	743	747	Jorge	6	512	Pista	Pista	Continuar		241,588	62937,986	23442,014	6	30
18	257	747	751	Jorge	8	514	Pista	Pista	Continuar		241,588	63199,574	23200,426	6	26
18	258	751	755	Jorge	10	516	Pista	Pista	Continuar		241,588	63441,162	22958,838	6	22
18	259	755	759	Jorge	12	518	Pista	Pista	Continuar		241,588	63682,75	22717,25	6	18
18	260	759	763	Jorge	14	520	Pista	Pista	Continuar		241,588	63924,338	22475,662	6	14
18	261	763	766	Jorge	16	522	Pista	Pista	Continuar		241,588	64165,926	22234,074	6	10
18	262	766	768	Jorge	18	524	Pista	Pista	Continuar		241,588	64407,514	21992,486	6	6
18	263	768	769	Jorge	20	526	Pista	Pista	Continuar		241,588	64649,102	21750,898	6	2
18	264	769	770	Jorge	22	528	Pista	Pista	Continuar		241,588	64890,69	21509,31	5	58
18	265	770	771	Jorge	24	530	Pista	Pista	Continuar		241,588	65132,278	21267,722	5	54
18	266	771	773	Jorge	26	532	Pista	Pista	Continuar		241,588	65373,866	21026,134	5	50
18	267	773	775	Jorge	28	534	Pista	Pista	Continuar		241,588	65615,454	20784,546	5	46
18	268	775	777	Jorge	30	536	Pista	Box	Entrar a box	Combustible	310,888	65926,342	20473,658	5	41
19	269	777	778	Fernando	2	538	Box	Pista	Sortir de box		240,652	66166,994	20233,006	5	37
19	270	778	782	Fernando	4	540	Pista	Pista	Continuar		237,882	66404,876	19995,124	5	33
19	271	782	786	Fernando	6	542	Pista	Pista	Continuar		237,882	66642,758	19757,242	5	29
19	272	786	790	Fernando	8	544	Pista	Pista	Continuar		237,882	66880,64	19519,36	5	25
19	273	790	794	Fernando	10	546	Pista	Pista	Continuar		237,882	67118,522	19281,478	5	21
19	274	794	798	Fernando	12	548	Pista	Pista	Continuar		237,882	67356,404	19043,596	5	17
19	275	798	802	Fernando	14	550	Pista	Pista	Continuar		237,882	67594,286	18805,714	5	13
19	276	802	806	Fernando	16	552	Pista	Pista	Continuar		237,882	67832,168	18567,832	5	9
19	277	806	810	Fernando	18	554	Pista	Pista	Continuar		237,882	68070,05	18329,95	5	5
19	278	810	813	Fernando	20	556	Pista	Pista	Continuar		237,882	68307,932	18092,068	5	1
19	279	813	814	Fernando	22	558	Pista	Pista	Continuar		237,882	68545,814	17854,186	4	57
19	280	814	816	Fernando	24	560	Pista	Pista	Continuar		237,882	68783,696	17616,304	4	53
19	281	816	818	Fernando	26	562	Pista	Pista	Continuar		237,882	69021,578	17378,422	4	49
19	282	818	820	Fernando	28	564	Pista	Box	Entrar a box	Pneum. 2.Rodes	381,182	69402,76	16997,24	4	43

