

# Solução do Problema Czprob - Solver HiGHS

Análise Computacional

17 de setembro de 2025

## 1 Informações do Problema

### Informações do Problema:

- Nome: Czprob
- Número de Variáveis: 3523
- Número de Restrições: 929
- Inviabilidade Primal: 0.000e+00
- Inviabilidade Dual: 2.842e-14
- Valor Primal: 2.185e+06
- Valor Dual: 2.185e+06
- Gap: 1.463e-22
- Número de Iterações: 34

## 2 Variáveis Primais e Custos Reduzidos

Tabela 1: Variáveis primais e custos reduzidos do problema Czprob

Coordenada x	Valor x	Coordenada z	Valor z
1	-0.000000	1	0.000000
2	0.000000	2	1.076308
3	81.000000	3	0.000000
4	0.000000	4	0.019119
5	0.000000	5	2.390531
6	0.000000	6	5.479315
7	0.000000	7	57.676782
8	270.000000	8	0.000000
9	0.000000	9	14.542337
10	0.000000	10	16.913749
11	0.000000	11	20.002533
12	715.000000	12	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
13	0.000000	13	9.523218
14	0.000000	14	12.942337
15	0.000000	15	15.313749
16	0.000000	16	18.402533
17	38.000000	17	0.000000
18	0.000000	18	13.223218
19	0.000000	19	10.655673
20	0.000000	20	3.070049
21	0.000000	21	6.595614
22	0.000000	22	11.584019
23	667.000000	23	0.000000
24	70.000000	24	0.000000
25	0.000000	25	17.943573
26	0.000000	26	12.334948
27	0.000000	27	24.747871
28	0.000000	28	10.315468
29	0.000000	29	11.340690
30	4.000000	30	0.000000
31	0.000000	31	52.602886
32	0.000000	32	26.538558
33	0.000000	33	35.165682
34	0.000000	34	17.943573
35	0.000000	35	12.334948
36	0.000000	36	24.747871
37	0.000000	37	10.515468
38	0.000000	38	11.340690
39	3.000000	39	0.000000
40	0.000000	40	99.802886
41	0.000000	41	73.738558
42	0.000000	42	82.365682
43	0.000000	43	17.943573
44	0.000000	44	12.334948
45	0.000000	45	24.747871
46	0.000000	46	10.515468
47	0.000000	47	11.340690
48	21.000000	48	0.000000
49	0.000000	49	92.002886
50	0.000000	50	65.938558
51	0.000000	51	79.165682
52	0.000000	52	17.943573
53	0.000000	53	12.334948
54	0.000000	54	30.247871
55	0.000000	55	10.515468
56	0.000000	56	11.340690
57	66.000000	57	0.000000
58	0.000000	58	113.202886
59	0.000000	59	87.138558
60	0.000000	60	95.765682
61	0.000000	61	7.428105

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Coordenada x	Valor x	Coordenada z	Valor z
62	0.000000	62	1.819480
63	0.000000	63	19.732402
64	48.000000	64	0.000000
65	0.000000	65	0.825222
66	0.000000	66	6.528541
67	0.000000	67	102.687417
68	0.000000	68	76.623089
69	0.000000	69	85.250214
70	0.000000	70	17.943573
71	0.000000	71	12.334948
72	0.000000	72	10.515468
73	0.000000	73	11.340690
74	22.000000	74	0.000000
75	0.000000	75	92.202886
76	0.000000	76	66.138558
77	0.000000	77	74.765682
78	0.000000	78	20.443573
79	0.000000	79	14.834948
80	0.000000	80	27.247871
81	0.000000	81	10.915468
82	0.000000	82	13.840690
83	11.000000	83	0.000000
84	0.000000	84	41.202886
85	0.000000	85	15.138558
86	0.000000	86	23.765682
87	0.000000	87	22.943573
88	0.000000	88	17.334948
89	0.000000	89	29.747871
90	0.000000	90	10.515468
91	0.000000	91	16.340690
92	4.000000	92	0.000000
93	0.000000	93	40.502886
94	0.000000	94	14.438558
95	0.000000	95	23.065682
96	0.000000	96	17.943573
97	0.000000	97	12.334948
98	0.000000	98	24.747871
99	0.000000	99	15.515468
100	0.000000	100	11.340690
101	136.000000	101	0.000000
102	0.000000	102	36.802886
103	0.000000	103	10.738558
104	0.000000	104	19.365682
105	0.000000	105	14.798890
106	0.000000	106	9.872595
107	0.000000	107	24.095403
108	0.000000	108	7.316514
109	0.000000	109	7.555208
110	106.000000	110	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
111	0.000000	111	33.941968
112	0.000000	112	18.846084
113	0.000000	113	14.925234
114	0.000000	114	14.798890
115	0.000000	115	9.872595
116	0.000000	116	24.095403
117	0.000000	117	7.716514
118	0.000000	118	7.555208
119	5.000000	119	0.000000
120	0.000000	120	82.341968
121	0.000000	121	67.246084
122	0.000000	122	63.325234
123	0.000000	123	14.798890
124	0.000000	124	9.872595
125	0.000000	125	24.095403
126	0.000000	126	7.716514
127	0.000000	127	7.555208
128	8.000000	128	0.000000
129	0.000000	129	82.341968
130	0.000000	130	67.246084
131	0.000000	131	63.325234
132	0.000000	132	14.798890
133	0.000000	133	9.872595
134	0.000000	134	7.716514
135	0.000000	135	7.555208
136	39.000000	136	0.000000
137	0.000000	137	71.641968
138	0.000000	138	56.546084
139	0.000000	139	52.625234
140	0.000000	140	14.798890
141	0.000000	141	9.872595
142	0.000000	142	24.095403
143	0.000000	143	7.716514
144	0.000000	144	7.555208
145	20.000000	145	0.000000
146	0.000000	146	95.741968
147	0.000000	147	80.646084
148	0.000000	148	76.725234
149	0.000000	149	14.798890
150	0.000000	150	9.872595
151	0.000000	151	24.095403
152	0.000000	152	7.716514
153	0.000000	153	7.555208
154	26.000000	154	0.000000
155	0.000000	155	75.141968
156	0.000000	156	60.046084
157	0.000000	157	56.125234
158	0.000000	158	14.798890
159	0.000000	159	9.872595

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Coordenada x	Valor x	Coordenada z	Valor z
160	0.000000	160	24.095403
161	0.000000	161	7.716514
162	0.000000	162	7.555208
163	26.000000	163	0.000000
164	0.000000	164	75.141968
165	0.000000	165	60.046084
166	0.000000	166	56.125234
167	0.000000	167	14.798890
168	0.000000	168	9.872595
169	0.000000	169	24.095403
170	0.000000	170	7.716514
171	0.000000	171	7.555208
172	29.000000	172	0.000000
173	0.000000	173	74.741968
174	0.000000	174	59.646084
175	0.000000	175	55.725234
176	0.000000	176	17.598890
177	0.000000	177	12.672595
178	0.000000	178	8.116514
179	0.000000	179	10.355208
180	1.000000	180	0.000000
181	0.000000	181	23.441968
182	0.000000	182	8.346084
183	0.000000	183	4.425234
184	0.000000	184	5.598790
185	0.000000	185	4.573193
186	0.000000	186	4.316357
187	2.000000	187	0.000000
188	0.000000	188	14.723064
189	0.000000	189	9.369818
190	0.000000	190	14.926040
191	0.000000	191	5.498790
192	0.000000	192	2.873193
193	0.000000	193	4.216357
194	3.000000	194	0.000000
195	0.000000	195	15.823064
196	0.000000	196	10.469818
197	0.000000	197	16.026040
198	0.000000	198	5.598790
199	0.000000	199	4.373193
200	0.000000	200	4.316357
201	15.000000	201	0.000000
202	0.000000	202	13.523064
203	0.000000	203	8.169818
204	0.000000	204	13.726040
205	0.000000	205	5.598790
206	0.000000	206	4.373193
207	0.000000	207	4.316357
208	1.000000	208	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
209	0.000000	209	13.523064
210	0.000000	210	8.169818
211	0.000000	211	13.726040
212	0.000000	212	5.598790
213	0.000000	213	2.773193
214	0.000000	214	4.316357
215	2.000000	215	0.000000
216	0.000000	216	14.723064
217	0.000000	217	9.369818
218	0.000000	218	14.926040
219	0.000000	219	5.598790
220	0.000000	220	4.773193
221	0.000000	221	4.316357
222	9.000000	222	0.000000
223	0.000000	223	55.123064
224	0.000000	224	49.769818
225	0.000000	225	55.442091
226	0.000000	226	0.825597
227	15.000000	227	0.000000
228	0.000000	228	-0.456836
229	0.000000	229	0.126807
230	0.000000	230	70.549871
231	0.000000	231	65.196625
232	0.000000	232	70.752847
233	0.000000	233	0.825597
234	95.000000	234	0.000000
235	0.000000	235	-0.456836
236	0.000000	236	0.126807
237	0.000000	237	70.549871
238	0.000000	238	65.196625
239	0.000000	239	70.752847
240	0.000000	240	0.825597
241	76.000000	241	0.000000
242	0.000000	242	-0.456836
243	0.000000	243	0.126807
244	0.000000	244	70.549871
245	0.000000	245	65.196625
246	0.000000	246	70.752847
247	0.000000	247	5.598790
248	0.000000	248	4.773193
249	0.000000	249	4.316357
250	3.000000	250	0.000000
251	0.000000	251	54.323064
252	0.000000	252	48.969818
253	0.000000	253	54.526040
254	0.000000	254	10.228972
255	0.000000	255	7.203375
256	0.000000	256	8.946539
257	0.000000	257	4.650182

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Coordenada x	Valor x	Coordenada z	Valor z
258	0.000000	258	5.353246
259	6.000000	259	0.000000
260	0.000000	260	5.556222
261	0.000000	261	5.578790
262	0.000000	262	4.753193
263	0.000000	263	4.296357
264	72.000000	264	0.000000
265	0.000000	265	53.103064
266	0.000000	266	47.749818
267	0.000000	267	53.306040
268	0.000000	268	5.578790
269	0.000000	269	4.753193
270	0.000000	270	4.296357
271	29.000000	271	0.000000
272	0.000000	272	53.103064
273	0.000000	273	47.749818
274	0.000000	274	53.306040
275	0.000000	275	13.328972
276	0.000000	276	7.503375
277	0.000000	277	12.046539
278	0.000000	278	2.750182
279	0.000000	279	5.353246
280	6.000000	280	0.000000
281	0.000000	281	5.556222
282	0.000000	282	12.028972
283	0.000000	283	16.203375
284	0.000000	284	10.746539
285	0.000000	285	6.450182
286	0.000000	286	5.353246
287	267.000000	287	0.000000
288	0.000000	288	5.556222
289	0.000000	289	1.524548
290	43.000000	290	0.000000
291	0.000000	291	-1.892351
292	0.000000	292	1.845662
293	0.000000	293	69.734432
294	0.000000	294	64.159534
295	0.000000	295	63.017621
296	0.000000	296	1.524548
297	35.000000	297	0.000000
298	0.000000	298	-1.892351
299	0.000000	299	1.845662
300	0.000000	300	69.734432
301	0.000000	301	64.159534
302	0.000000	302	63.017621
303	0.000000	303	4.728886
304	0.000000	304	3.204338
305	0.000000	305	1.311987
306	12.000000	306	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
307	0.000000	307	52.938769
308	0.000000	308	47.363871
309	0.000000	309	46.221958
310	0.000000	310	4.748886
311	0.000000	311	3.224338
312	0.000000	312	1.331987
313	8.000000	313	0.000000
314	0.000000	314	51.958769
315	0.000000	315	46.383871
316	0.000000	316	45.241958
317	0.000000	317	19.092011
318	0.000000	318	15.167464
319	0.000000	319	1.375113
320	1.000000	320	0.000000
321	0.000000	321	12.201895
322	0.000000	322	6.626997
323	0.000000	323	5.485084
324	0.000000	324	16.206927
325	0.000000	325	9.682379
326	0.000000	326	12.790029
327	0.000000	327	6.458042
328	0.000000	328	6.716811
329	0.000000	329	1.141913
330	33.000000	330	0.000000
331	0.000000	331	14.906927
332	0.000000	332	18.382379
333	0.000000	333	11.490029
334	0.000000	334	10.158042
335	0.000000	335	6.716811
336	0.000000	336	1.141913
337	125.000000	337	0.000000
338	0.000000	338	4.336075
339	0.000000	339	2.202754
340	0.000000	340	0.476005
341	23.000000	341	0.000000
342	0.000000	342	66.571145
343	0.000000	343	61.715969
344	0.000000	344	1.957077
345	0.000000	345	1.417686
346	10.000000	346	0.000000
347	0.000000	347	3.396337
348	0.000000	348	3.295586
349	0.000000	349	2.231409
350	0.000000	350	2.609752
351	0.000000	351	-2.939863
352	0.000000	352	2.237890
353	0.000000	353	1.617686
354	7.000000	354	0.000000
355	0.000000	355	2.396337

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Coordenada x	Valor x	Coordenada z	Valor z
356	0.000000	356	2.295586
357	0.000000	357	1.231409
358	0.000000	358	3.569752
359	0.000000	359	-2.739863
360	0.000000	360	2.237890
361	0.000000	361	1.617686
362	7.000000	362	0.000000
363	0.000000	363	2.396337
364	0.000000	364	2.295586
365	0.000000	365	1.231409
366	0.000000	366	2.809752
367	0.000000	367	-2.739863
368	0.000000	368	2.097890
369	0.000000	369	1.477686
370	67.000000	370	0.000000
371	0.000000	371	64.056337
372	0.000000	372	63.955586
373	0.000000	373	62.891409
374	0.000000	374	2.669752
375	0.000000	375	-2.879863
376	0.000000	376	2.097890
377	0.000000	377	1.477686
378	59.000000	378	0.000000
379	0.000000	379	64.056337
380	0.000000	380	63.955586
381	0.000000	381	62.891409
382	0.000000	382	2.669752
383	0.000000	383	-2.879863
384	0.000000	384	14.306481
385	0.000000	385	13.686276
386	0.000000	386	10.068591
387	0.000000	387	1.164928
388	0.000000	388	1.064177
389	14.000000	389	0.000000
390	0.000000	390	12.078342
391	0.000000	391	9.328727
392	0.000000	392	5.837890
393	0.000000	393	5.217686
394	1.000000	394	0.000000
395	0.000000	395	1.396337
396	0.000000	396	1.295586
397	0.000000	397	0.231409
398	0.000000	398	6.409752
399	0.000000	399	0.860137
400	0.000000	400	16.906481
401	0.000000	401	16.286276
402	0.000000	402	10.068591
403	0.000000	403	1.164928
404	0.000000	404	1.064177

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Coordenada x	Valor x	Coordenada z	Valor z
405	1.000000	405	0.000000
406	0.000000	406	12.478342
407	0.000000	407	11.928727
408	0.000000	408	15.606481
409	0.000000	409	14.986276
410	0.000000	410	18.768591
411	0.000000	411	1.164928
412	0.000000	412	1.064177
413	90.000000	413	0.000000
414	0.000000	414	16.178342
415	0.000000	415	10.628727
416	0.000000	416	4.472341
417	0.000000	417	3.323433
418	0.000000	418	-3.232228
419	0.000000	419	2.988777
420	13.000000	420	0.000000
421	0.000000	421	4.950241
422	0.000000	422	2.532136
423	0.000000	423	4.503564
424	0.000000	424	2.152996
425	0.000000	425	-0.201005
426	11.000000	426	0.000000
427	0.000000	427	48.931223
428	0.000000	428	53.881464
429	0.000000	429	51.463359
430	0.000000	430	4.503564
431	0.000000	431	2.152996
432	0.000000	432	-0.201005
433	6.000000	433	0.000000
434	0.000000	434	48.931223
435	0.000000	435	53.881464
436	0.000000	436	51.463359
437	0.000000	437	4.483564
438	0.000000	438	2.132996
439	0.000000	439	-0.221005
440	129.000000	440	0.000000
441	0.000000	441	62.011223
442	0.000000	442	66.961464
443	0.000000	443	64.543359
444	0.000000	444	4.483564
445	0.000000	445	2.132996
446	0.000000	446	-0.221005
447	31.000000	447	0.000000
448	0.000000	448	62.011223
449	0.000000	449	66.961464
450	0.000000	450	64.543359
451	0.000000	451	4.503564
452	0.000000	452	2.152996
453	0.000000	453	-0.201005

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Coordenada x	Valor x	Coordenada z	Valor z
454	10.000000	454	0.000000
455	0.000000	455	38.831223
456	0.000000	456	43.781464
457	0.000000	457	41.363359
458	0.000000	458	17.572341
459	0.000000	459	12.821773
460	0.000000	460	12.867772
461	0.000000	461	13.088777
462	20.000000	462	0.000000
463	0.000000	463	4.950241
464	0.000000	464	2.532136
465	0.000000	465	18.872341
466	0.000000	466	21.521773
467	0.000000	467	14.167772
468	0.000000	468	14.388777
469	2.000000	469	0.000000
470	0.000000	470	4.950241
471	0.000000	471	2.532136
472	0.000000	472	9.799194
473	0.000000	473	8.268989
474	0.000000	474	0.094625
475	123.000000	475	0.000000
476	0.000000	476	11.160946
477	0.000000	477	4.690649
478	0.000000	478	0.114625
479	15.000000	479	0.000000
480	0.000000	480	10.344286
481	0.000000	481	4.936611
482	0.000000	482	6.270297
483	34.000000	483	0.000000
484	0.000000	484	-4.776024
485	0.000000	485	0.299351
486	0.000000	486	66.053637
487	0.000000	487	60.645962
488	0.000000	488	11.160946
489	0.000000	489	4.890649
490	0.000000	490	0.114625
491	3.000000	491	0.000000
492	0.000000	492	50.944286
493	0.000000	493	45.536611
494	0.000000	494	22.024335
495	0.000000	495	20.754038
496	0.000000	496	10.978014
497	0.000000	497	10.863389
498	0.000000	498	5.407675
499	100.000000	499	0.000000
500	0.000000	500	11.160946
501	0.000000	501	9.187481
502	0.000000	502	0.114625

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Coordenada x	Valor x	Coordenada z	Valor z
503	120.000000	503	0.000000
504	1.000000	504	0.000000
505	6.000000	505	0.000000
506	5.000000	506	0.000000
507	81.000000	507	0.000000
508	18.000000	508	0.000000
509	10.000000	509	0.000000
510	0.000000	510	59.235433
511	112.000000	511	0.000000
512	6.000000	512	0.000000
513	0.000000	513	3.381007
514	48.000000	514	0.000000
515	58.000000	515	0.000000
516	1.000000	516	0.000000
517	6.000000	517	0.000000
518	2.000000	518	0.000000
519	1.000000	519	0.000000
520	23.000000	520	0.000000
521	1.000000	521	0.000000
522	2.000000	522	0.000000
523	2.000000	523	0.000000
524	0.000000	524	0.098378
525	0.000000	525	13.736030
526	0.000000	526	0.966806
527	46.000000	527	0.000000
528	0.000000	528	85.354124
529	0.000000	529	77.623723
530	0.000000	530	3.051646
531	3.000000	531	0.000000
532	0.000000	532	6.200177
533	0.000000	533	3.941224
534	0.000000	534	74.612117
535	0.000000	535	76.045429
536	0.000000	536	6.785425
537	21.000000	537	0.000000
538	0.000000	538	0.125196
539	0.000000	539	4.422958
540	0.000000	540	2.156373
541	0.000000	541	4.257194
542	0.000000	542	76.048594
543	0.000000	543	68.584661
544	0.000000	544	2.862964
545	8.000000	545	0.000000
546	0.000000	546	0.905388
547	0.000000	547	5.055997
548	0.000000	548	6.640063
549	0.000000	549	54.203225
550	0.000000	550	39.818908
551	30.000000	551	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
552	0.000000	552	0.905388
553	0.000000	553	5.055997
554	0.000000	554	6.640063
555	0.000000	555	54.203225
556	0.000000	556	39.818908
557	0.000000	557	2.481880
558	0.000000	558	8.254953
559	13.000000	559	0.000000
560	0.000000	560	3.880059
561	23.000000	561	0.000000
562	0.000000	562	16.954344
563	0.000000	563	11.000815
564	0.000000	564	17.334358
565	0.000000	565	14.527564
566	0.000000	566	18.420717
567	9.000000	567	0.000000
568	0.000000	568	4.973316
569	54.000000	569	0.000000
570	0.000000	570	3.451303
571	0.000000	571	3.432901
572	0.000000	572	4.406045
573	0.000000	573	4.958928
574	0.000000	574	2.082520
575	0.000000	575	6.361235
576	0.000000	576	1.232824
577	0.000000	577	9.092033
578	27.000000	578	0.000000
579	0.000000	579	2.049802
580	0.000000	580	7.558928
581	0.000000	581	4.682520
582	0.000000	582	8.961235
583	0.000000	583	3.832824
584	0.000000	584	11.692033
585	100.000000	585	0.000000
586	0.000000	586	5.169802
587	0.000000	587	7.376326
588	0.000000	588	4.507646
589	0.000000	589	9.004909
590	0.000000	590	3.670032
591	0.000000	591	0.121803
592	27.000000	592	0.000000
593	0.000000	593	13.980707
594	0.000000	594	5.947227
595	0.000000	595	18.651546
596	0.000000	596	3.649144
597	0.000000	597	5.383173
598	0.000000	598	7.328821
599	0.000000	599	32.288952
600	0.000000	600	22.596690

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Coordenada x	Valor x	Coordenada z	Valor z
601	0.000000	601	24.573602
602	0.000000	602	5.356787
603	0.000000	603	12.780707
604	0.000000	604	4.747227
605	0.000000	605	17.451546
606	0.000000	606	2.649144
607	0.000000	607	4.183173
608	0.000000	608	6.128821
609	0.000000	609	32.288952
610	0.000000	610	22.596690
611	0.000000	611	24.573602
612	0.000000	612	4.156787
613	0.000000	613	15.231564
614	0.000000	614	7.198084
615	0.000000	615	19.902402
616	330.000000	616	0.000000
617	0.000000	617	6.634030
618	0.000000	618	3.579677
619	0.000000	619	17.839809
620	0.000000	620	8.147546
621	0.000000	621	10.124459
622	0.000000	622	1.607643
623	0.000000	623	24.680707
624	0.000000	624	16.647227
625	0.000000	625	29.351546
626	0.000000	626	19.749144
627	0.000000	627	16.083173
628	0.000000	628	18.028821
629	0.000000	629	28.588952
630	0.000000	630	18.896690
631	0.000000	631	20.873602
632	0.000000	632	16.056787
633	0.000000	633	10.731564
634	0.000000	634	2.698084
635	0.000000	635	15.402402
636	43.000000	636	0.000000
637	0.000000	637	2.134030
638	0.000000	638	4.079677
639	0.000000	639	43.689809
640	0.000000	640	33.997546
641	0.000000	641	35.974459
642	0.000000	642	2.107643
643	0.000000	643	10.731564
644	0.000000	644	2.698084
645	0.000000	645	15.402402
646	38.000000	646	0.000000
647	0.000000	647	2.134030
648	0.000000	648	4.079677
649	0.000000	649	55.189809

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Coordenada x	Valor x	Coordenada z	Valor z
650	0.000000	650	45.497546
651	0.000000	651	47.474459
652	0.000000	652	2.107643
653	0.000000	653	10.731564
654	0.000000	654	2.698084
655	10.000000	655	0.000000
656	0.000000	656	2.134030
657	0.000000	657	1.689677
658	0.000000	658	50.689809
659	0.000000	659	34.717390
660	0.000000	660	42.974459
661	0.000000	661	9.041886
662	0.000000	662	1.008406
663	0.000000	663	5.710323
664	0.000000	664	0.444352
665	38.000000	665	0.000000
666	0.000000	666	45.450131
667	0.000000	667	29.477713
668	0.000000	668	37.734781
669	0.000000	669	9.931564
670	0.000000	670	1.898084
671	78.000000	671	0.000000
672	0.000000	672	217.851241
673	0.000000	673	2.459040
674	0.000000	674	90.239809
675	0.000000	675	74.452100
676	0.000000	676	82.524459
677	0.000000	677	8.918063
678	0.000000	678	2.097695
679	0.000000	679	19.245800
680	-0.000000	680	0.000000
681	0.000000	681	15.688340
682	0.000000	682	12.145257
683	0.000000	683	17.082968
684	0.000000	684	1.198781
685	0.000000	685	0.640813
686	0.000000	686	1.743786
687	0.000000	687	8.718063
688	0.000000	688	1.897695
689	0.000000	689	19.045800
690	-0.000000	690	0.000000
691	0.000000	691	16.688340
692	0.000000	692	13.145257
693	0.000000	693	18.082968
694	0.000000	694	0.998781
695	0.000000	695	0.440813
696	0.000000	696	1.543786
697	0.000000	697	13.518063
698	0.000000	698	6.697695

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Coordenada x	Valor x	Coordenada z	Valor z
699	0.000000	699	23.845800
700	227.000000	700	0.000000
701	0.000000	701	4.588340
702	0.000000	702	1.045257
703	0.000000	703	5.982968
704	0.000000	704	0.798781
705	0.000000	705	0.240813
706	0.000000	706	6.343786
707	0.000000	707	13.518063
708	0.000000	708	6.697695
709	0.000000	709	23.845800
710	306.000000	710	0.000000
711	0.000000	711	4.588340
712	0.000000	712	1.045257
713	0.000000	713	5.982968
714	0.000000	714	0.798781
715	0.000000	715	0.240813
716	0.000000	716	6.343786
717	0.000000	717	19.023809
718	0.000000	718	12.203441
719	0.000000	719	29.351546
720	0.000000	720	15.505746
721	0.000000	721	11.394086
722	0.000000	722	7.851003
723	0.000000	723	12.788715
724	0.000000	724	11.304527
725	0.000000	725	10.746559
726	0.000000	726	11.849532
727	0.000000	727	9.318063
728	0.000000	728	2.497695
729	0.000000	729	19.645800
730	50.000000	730	0.000000
731	0.000000	731	30.738340
732	0.000000	732	27.195257
733	0.000000	733	32.132968
734	0.000000	734	1.598781
735	0.000000	735	1.040813
736	0.000000	736	2.143786
737	0.000000	737	9.318063
738	0.000000	738	2.497695
739	0.000000	739	19.645800
740	73.000000	740	0.000000
741	0.000000	741	42.238340
742	0.000000	742	38.695257
743	0.000000	743	43.632968
744	0.000000	744	1.598781
745	0.000000	745	1.040813
746	0.000000	746	-2.096214
747	0.000000	747	8.277250

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Coordenada x	Valor x	Coordenada z	Valor z
748	0.000000	748	1.456882
749	0.000000	749	6.359187
750	0.000000	750	33.147527
751	0.000000	751	29.604444
752	0.000000	752	34.542155
753	40.000000	753	0.000000
754	0.000000	754	1.102973
755	161.000000	755	0.000000
756	0.000000	756	71.588399
757	0.000000	757	69.566659
758	0.000000	758	69.863540
759	0.000000	759	10.752755
760	0.000000	760	2.968159
761	0.000000	761	2.246455
762	29.000000	762	0.000000
763	0.000000	763	71.588399
764	0.000000	764	69.566659
765	0.000000	765	69.863540
766	0.000000	766	10.752755
767	0.000000	767	2.968159
768	0.000000	768	2.246455
769	1.000000	769	0.000000
770	0.000000	770	71.588399
771	0.000000	771	69.566659
772	0.000000	772	69.863540
773	0.000000	773	10.752755
774	0.000000	774	2.968159
775	0.000000	775	2.246455
776	0.000000	776	19.417769
777	0.000000	777	10.015552
778	0.000000	778	1.703454
779	0.000000	779	8.040987
780	124.000000	780	0.000000
781	0.000000	781	7.304510
782	0.000000	782	3.717769
783	0.000000	783	6.069843
784	0.000000	784	1.834305
785	0.000000	785	0.021235
786	0.000000	786	1.050082
787	0.000000	787	14.396534
788	0.000000	788	9.994318
789	0.000000	789	1.682220
790	0.000000	790	8.019752
791	0.000000	791	0.178765
792	0.000000	792	8.483275
793	0.000000	793	4.896534
794	0.000000	794	7.248608
795	0.000000	795	1.813071
796	-0.000000	796	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
797	0.000000	797	1.028848
798	0.000000	798	3.696534
799	0.000000	799	9.994318
800	0.000000	800	1.682220
801	0.000000	801	8.019752
802	0.000000	802	0.378765
803	0.000000	803	50.283275
804	0.000000	804	46.696534
805	0.000000	805	49.048608
806	0.000000	806	1.813071
807	156.000000	807	0.000000
808	0.000000	808	1.028848
809	5.000000	809	0.000000
810	0.000000	810	18.997784
811	0.000000	811	10.685686
812	0.000000	812	17.023219
813	0.000000	813	7.182231
814	0.000000	814	3.986742
815	0.000000	815	0.400000
816	0.000000	816	2.752074
817	0.000000	817	8.216537
818	0.000000	818	6.403466
819	0.000000	819	10.032314
820	190.717757	820	0.000000
821	0.000000	821	21.997784
822	0.000000	822	13.685686
823	0.000000	823	20.023219
824	0.000000	824	7.382231
825	0.000000	825	3.586742
826	1340.282243	826	0.000000
827	0.000000	827	2.352074
828	0.000000	828	8.816537
829	0.000000	829	7.003466
830	0.000000	830	13.032314
831	0.000000	831	1.500000
832	0.000000	832	20.697784
833	0.000000	833	12.385686
834	0.000000	834	18.723219
835	0.000000	835	16.082231
836	0.000000	836	3.586742
837	-0.000000	837	0.000000
838	0.000000	838	2.352074
839	0.000000	839	12.516537
840	0.000000	840	10.703466
841	0.000000	841	11.732314
842	0.000000	842	3.196534
843	0.000000	843	9.994318
844	0.000000	844	1.682220
845	0.000000	845	8.019752

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Coordenada x	Valor x	Coordenada z	Valor z
846	0.000000	846	0.378765
847	0.000000	847	21.933275
848	0.000000	848	18.346534
849	0.000000	849	20.698608
850	10.000000	850	0.000000
851	0.000000	851	1.028848
852	0.000000	852	3.617769
853	0.000000	853	10.415552
854	0.000000	854	2.103454
855	0.000000	855	8.440987
856	18.000000	856	0.000000
857	0.000000	857	24.544510
858	0.000000	858	20.957769
859	0.000000	859	23.309843
860	0.000000	860	0.421235
861	0.000000	861	1.450082
862	0.000000	862	3.196534
863	0.000000	863	9.994318
864	0.000000	864	1.682220
865	0.000000	865	8.019752
866	0.000000	866	6.978765
867	0.000000	867	26.457955
868	0.000000	868	21.796534
869	0.000000	869	24.148608
870	29.000000	870	0.000000
871	0.000000	871	1.028848
872	0.000000	872	1.554366
873	0.000000	873	7.966197
874	0.000000	874	1.520445
875	102.000000	875	0.000000
876	0.000000	876	45.334016
877	0.000000	877	45.656419
878	0.000000	878	41.162222
879	0.000000	879	0.200401
880	0.000000	880	2.756628
881	0.000000	881	-0.647183
882	0.000000	882	1.554366
883	0.000000	883	7.966197
884	0.000000	884	1.520445
885	1088.000000	885	0.000000
886	0.000000	886	64.334016
887	0.000000	887	64.656419
888	0.000000	888	60.162222
889	0.000000	889	5.700401
890	0.000000	890	2.756628
891	0.000000	891	4.991625
892	0.000000	892	1.554366
893	0.000000	893	7.966197
894	0.000000	894	1.520445

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Coordenada x	Valor x	Coordenada z	Valor z
895	20.000000	895	0.000000
896	0.000000	896	64.334016
897	0.000000	897	64.656419
898	0.000000	898	60.162222
899	0.000000	899	5.700401
900	0.000000	900	2.756628
901	0.000000	901	4.991625
902	0.000000	902	1.554366
903	0.000000	903	7.966197
904	0.000000	904	1.520445
905	46.000000	905	0.000000
906	0.000000	906	64.334016
907	0.000000	907	64.656419
908	0.000000	908	60.162222
909	0.000000	909	5.700401
910	0.000000	910	2.756628
911	0.000000	911	4.991625
912	0.000000	912	6.194518
913	0.000000	913	20.038372
914	0.000000	914	18.787827
915	0.000000	915	11.898271
916	0.000000	916	5.487039
917	0.000000	917	9.503652
918	196.000000	918	0.000000
919	0.000000	919	11.197708
920	0.000000	920	16.072839
921	0.000000	921	7.694518
922	0.000000	922	18.738372
923	0.000000	923	17.487827
924	0.000000	924	20.598271
925	0.000000	925	5.487039
926	0.000000	926	9.503652
927	-0.000000	927	0.000000
928	0.000000	928	14.897708
929	0.000000	929	14.772839
930	0.000000	930	18.290028
931	0.000000	931	4.338372
932	0.000000	932	2.480753
933	0.000000	933	0.212298
934	0.000000	934	3.713818
935	0.000000	935	4.701180
936	125.000000	936	0.000000
937	0.000000	937	0.813338
938	0.000000	938	0.002684
939	0.000000	939	1.977730
940	0.000000	940	3.726074
941	0.000000	941	1.868455
942	5.000000	942	0.000000
943	0.000000	943	65.101520

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Coordenada x	Valor x	Coordenada z	Valor z
944	0.000000	944	66.088882
945	0.000000	945	61.387702
946	0.000000	946	0.201040
947	0.000000	947	-0.609614
948	0.000000	948	1.977730
949	0.000000	949	3.726074
950	0.000000	950	1.868455
951	72.000000	951	0.000000
952	0.000000	952	65.101520
953	0.000000	953	66.088882
954	0.000000	954	61.387702
955	0.000000	955	0.201040
956	0.000000	956	-0.609614
957	0.000000	957	1.977730
958	0.000000	958	3.726074
959	0.000000	959	1.868455
960	143.000000	960	0.000000
961	0.000000	961	65.101520
962	0.000000	962	66.088882
963	0.000000	963	61.387702
964	0.000000	964	0.201040
965	0.000000	965	-0.609614
966	0.000000	966	2.590028
967	0.000000	967	20.038372
968	0.000000	968	18.180753
969	0.000000	969	11.312298
970	0.000000	970	3.713818
971	0.000000	971	4.701180
972	111.000000	972	0.000000
973	0.000000	973	11.513338
974	0.000000	974	15.702684
975	0.000000	975	4.090028
976	0.000000	976	18.738372
977	0.000000	977	16.880753
978	0.000000	978	20.012298
979	0.000000	979	3.713818
980	0.000000	980	4.701180
981	-0.000000	981	0.000000
982	0.000000	982	15.213338
983	0.000000	983	14.402684
984	0.000000	984	18.929978
985	0.000000	985	6.171430
986	0.000000	986	4.944151
987	0.000000	987	1.631879
988	0.000000	988	2.851720
989	0.000000	989	1.229627
990	203.000000	990	0.000000
991	0.000000	991	0.404505
992	0.000000	992	1.656369

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Coordenada x	Valor x	Coordenada z	Valor z
993	0.000000	993	13.525473
994	0.000000	994	5.766925
995	0.000000	995	4.539646
996	0.000000	996	1.427374
997	0.000000	997	3.647215
998	0.000000	998	2.025122
999	0.000000	999	0.795495
1000	-0.000000	1000	0.000000
1001	0.000000	1001	1.251864
1002	0.000000	1002	2.825473
1003	0.000000	1003	5.766925
1004	0.000000	1004	4.539646
1005	0.000000	1005	1.627374
1006	0.000000	1006	45.447215
1007	0.000000	1007	43.825122
1008	0.000000	1008	42.595495
1009	203.000000	1009	0.000000
1010	0.000000	1010	1.251864
1011	0.000000	1011	3.229978
1012	0.000000	1012	21.871430
1013	0.000000	1013	20.644151
1014	0.000000	1014	12.731879
1015	0.000000	1015	2.851720
1016	0.000000	1016	1.229627
1017	146.000000	1017	0.000000
1018	0.000000	1018	11.104505
1019	0.000000	1019	17.356369
1020	0.000000	1020	4.729978
1021	0.000000	1021	20.571430
1022	0.000000	1022	19.344151
1023	0.000000	1023	21.431879
1024	0.000000	1024	2.851720
1025	0.000000	1025	1.229627
1026	-0.000000	1026	0.000000
1027	0.000000	1027	14.804505
1028	0.000000	1028	16.056369
1029	0.000000	1029	21.386592
1030	0.000000	1030	7.987622
1031	0.000000	1031	7.358358
1032	0.000000	1032	4.211411
1033	128.000000	1033	0.000000
1034	0.000000	1034	3.643834
1035	0.000000	1035	2.298156
1036	0.000000	1036	2.471520
1037	0.000000	1037	3.631018
1038	0.000000	1038	3.215072
1039	0.000000	1039	5.516102
1040	0.000000	1040	4.886839
1041	0.000000	1041	2.139891

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Coordenada x	Valor x	Coordenada z	Valor z
1042	0.000000	1042	59.528480
1043	0.000000	1043	63.172314
1044	0.000000	1044	61.826637
1045	632.000000	1045	0.000000
1046	0.000000	1046	6.659499
1047	0.000000	1047	3.215072
1048	0.000000	1048	5.516102
1049	0.000000	1049	4.886839
1050	0.000000	1050	2.139891
1051	0.000000	1051	59.528480
1052	0.000000	1052	63.172314
1053	0.000000	1053	61.826637
1054	7.000000	1054	0.000000
1055	0.000000	1055	6.659499
1056	0.000000	1056	3.215072
1057	0.000000	1057	5.516102
1058	0.000000	1058	4.886839
1059	0.000000	1059	2.139891
1060	0.000000	1060	59.528480
1061	0.000000	1061	63.172314
1062	0.000000	1062	61.826637
1063	21.000000	1063	0.000000
1064	0.000000	1064	6.659499
1065	0.000000	1065	5.686592
1066	0.000000	1066	23.687622
1067	0.000000	1067	23.058358
1068	0.000000	1068	15.311411
1069	232.000000	1069	0.000000
1070	0.000000	1070	3.643834
1071	0.000000	1071	2.298156
1072	0.000000	1072	13.171520
1073	0.000000	1073	19.331018
1074	0.000000	1074	5.686592
1075	0.000000	1075	23.687622
1076	0.000000	1076	23.058358
1077	0.000000	1077	15.311411
1078	381.000000	1078	0.000000
1079	0.000000	1079	3.643834
1080	0.000000	1080	2.298156
1081	0.000000	1081	13.171520
1082	0.000000	1082	19.331018
1083	0.000000	1083	7.186592
1084	0.000000	1084	22.387622
1085	0.000000	1085	21.758358
1086	0.000000	1086	24.011411
1087	-0.000000	1087	0.000000
1088	0.000000	1088	3.643834
1089	0.000000	1089	2.298156
1090	0.000000	1090	16.871520

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Coordenada x	Valor x	Coordenada z	Valor z
1091	0.000000	1091	18.031018
1092	0.000000	1092	8.815072
1093	0.000000	1093	5.516102
1094	0.000000	1094	4.886839
1095	0.000000	1095	0.339891
1096	0.000000	1096	2.328480
1097	0.000000	1097	5.972314
1098	0.000000	1098	4.626637
1099	50.000000	1099	0.000000
1100	0.000000	1100	-22.740501
1101	0.000000	1101	19.170870
1102	0.000000	1102	12.838102
1103	0.000000	1103	6.923679
1104	0.000000	1104	3.497018
1105	273.000000	1105	0.000000
1106	0.000000	1106	0.241803
1107	0.000000	1107	2.383987
1108	0.000000	1108	3.614989
1109	0.000000	1109	3.034397
1110	0.000000	1110	12.470870
1111	0.000000	1111	11.238102
1112	0.000000	1112	5.323679
1113	0.000000	1113	2.097018
1114	-0.000000	1114	0.000000
1115	0.000000	1115	0.241803
1116	0.000000	1116	2.383987
1117	0.000000	1117	2.014989
1118	0.000000	1118	1.434397
1119	165.000000	1119	0.000000
1120	0.000000	1120	9.367231
1121	0.000000	1121	3.452809
1122	0.000000	1122	0.426148
1123	0.000000	1123	58.529130
1124	0.000000	1124	58.770932
1125	0.000000	1125	60.913117
1126	0.000000	1126	0.144119
1127	0.000000	1127	-0.436474
1128	0.000000	1128	3.470870
1129	0.000000	1129	28.538102
1130	0.000000	1130	22.623679
1131	0.000000	1131	14.597018
1132	405.000000	1132	0.000000
1133	0.000000	1133	0.241803
1134	0.000000	1134	2.383987
1135	0.000000	1135	14.314989
1136	0.000000	1136	18.734397
1137	0.000000	1137	4.970870
1138	0.000000	1138	27.238102
1139	0.000000	1139	21.323679

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Coordenada x	Valor x	Coordenada z	Valor z
1140	0.000000	1140	23.297018
1141	-0.000000	1141	0.000000
1142	0.000000	1142	0.241803
1143	0.000000	1143	2.383987
1144	0.000000	1144	18.014989
1145	0.000000	1145	17.434397
1146	0.000000	1146	1.246783
1147	0.000000	1147	16.214625
1148	0.000000	1148	10.300202
1149	0.000000	1149	13.776709
1150	0.000000	1150	4.955928
1151	0.000000	1151	4.855177
1152	6.000000	1152	0.000000
1153	0.000000	1153	6.796823
1154	0.000000	1154	6.225842
1155	0.000000	1155	3.646783
1156	0.000000	1156	27.314625
1157	0.000000	1157	21.400202
1158	0.000000	1158	14.276709
1159	0.000000	1159	4.955928
1160	0.000000	1160	4.855177
1161	13.000000	1161	0.000000
1162	0.000000	1162	12.996823
1163	0.000000	1163	17.325842
1164	0.000000	1164	3.646783
1165	0.000000	1165	27.314625
1166	0.000000	1166	21.400202
1167	0.000000	1167	14.276709
1168	0.000000	1168	4.955928
1169	0.000000	1169	4.855177
1170	299.000000	1170	0.000000
1171	0.000000	1171	12.996823
1172	0.000000	1172	17.325842
1173	0.000000	1173	5.146783
1174	0.000000	1174	26.014625
1175	0.000000	1175	20.100202
1176	0.000000	1176	22.976709
1177	0.000000	1177	4.955928
1178	0.000000	1178	4.855177
1179	-0.000000	1179	0.000000
1180	0.000000	1180	16.696823
1181	0.000000	1181	16.025842
1182	171.000000	1182	0.000000
1183	0.000000	1183	10.843779
1184	0.000000	1184	8.302930
1185	0.000000	1185	13.736653
1186	-0.000000	1186	0.000000
1187	0.000000	1187	17.943779
1188	0.000000	1188	10.402930

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Coordenada x	Valor x	Coordenada z	Valor z
1189	0.000000	1189	10.836653
1190	0.000000	1190	9.705616
1191	0.000000	1191	3.791193
1192	0.000000	1192	1.706765
1193	0.000000	1193	-0.283166
1194	48.000000	1194	0.000000
1195	0.000000	1195	59.883652
1196	0.000000	1196	63.168063
1197	0.000000	1197	7.998851
1198	0.000000	1198	2.084428
1199	-0.000000	1199	0.000000
1200	0.000000	1200	38.376887
1201	0.000000	1201	41.661298
1202	0.000000	1202	27.521964
1203	0.000000	1203	21.607541
1204	0.000000	1204	14.523113
1205	0.000000	1205	17.533182
1206	0.000000	1206	12.816348
1207	217.000000	1207	0.000000
1208	0.000000	1208	3.284411
1209	177.000000	1209	0.000000
1210	0.000000	1210	8.997784
1211	10.000000	1211	0.000000
1212	0.000000	1212	80.403107
1213	0.000000	1213	8.997784
1214	3.000000	1214	0.000000
1215	0.000000	1215	58.013107
1216	12.000000	1216	0.000000
1217	0.000000	1217	2.779130
1218	10.000000	1218	0.000000
1219	12.000000	1219	0.000000
1220	105.000000	1220	0.000000
1221	0.000000	1221	1.346299
1222	15.000000	1222	0.000000
1223	30.000000	1223	0.000000
1224	0.000000	1224	19.057579
1225	0.000000	1225	6.640082
1226	0.000000	1226	73.629759
1227	73.000000	1227	0.000000
1228	124.000000	1228	0.000000
1229	0.000000	1229	10.419463
1230	0.000000	1230	15.090302
1231	0.000000	1231	8.759091
1232	27.000000	1232	0.000000
1233	0.000000	1233	1.589684
1234	143.000000	1234	0.000000
1235	0.000000	1235	2.705827
1236	23.000000	1236	0.000000
1237	0.000000	1237	5.741546

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Coordenada x	Valor x	Coordenada z	Valor z
1238	24.000000	1238	0.000000
1239	0.000000	1239	4.615338
1240	0.000000	1240	9.286177
1241	36.000000	1241	0.000000
1242	3.000000	1242	0.000000
1243	0.000000	1243	77.320537
1244	0.000000	1244	83.187926
1245	0.000000	1245	3.559171
1246	0.000000	1246	5.407684
1247	31.000000	1247	0.000000
1248	0.000000	1248	3.074238
1249	65.000000	1249	0.000000
1250	6.000000	1250	0.000000
1251	36.000000	1251	0.000000
1252	0.000000	1252	29.513387
1253	0.000000	1253	36.018555
1254	0.000000	1254	40.213735
1255	0.000000	1255	4.973316
1256	27.000000	1256	0.000000
1257	0.000000	1257	5.466671
1258	0.000000	1258	4.406045
1259	0.000000	1259	4.973316
1260	12.000000	1260	0.000000
1261	0.000000	1261	5.466671
1262	0.000000	1262	4.406045
1263	60.000000	1263	0.000000
1264	44.000000	1264	0.000000
1265	23.000000	1265	0.000000
1266	55.000000	1266	0.000000
1267	4.000000	1267	0.000000
1268	13.000000	1268	0.000000
1269	15.000000	1269	0.000000
1270	0.000000	1270	6.051474
1271	171.000000	1271	0.000000
1272	0.000000	1272	11.445279
1273	0.000000	1273	0.576238
1274	99.756098	1274	0.000000
1275	0.000000	1275	10.526737
1276	0.000000	1276	6.525893
1277	0.000000	1277	4.413016
1278	0.000000	1278	55.085291
1279	0.000000	1279	57.073347
1280	0.243902	1280	0.000000
1281	0.000000	1281	1.565577
1282	0.000000	1282	0.000000
1283	37.537136	1283	0.000000
1284	55.462864	1284	0.000000
1285	0.000000	1285	13.985644
1286	0.000000	1286	3.738274

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Coordenada x	Valor x	Coordenada z	Valor z
1287	0.000000	1287	68.013892
1288	0.000000	1288	68.964195
1289	0.000000	1289	1.152913
1290	109.635639	1290	0.000000
1291	0.000000	1291	0.000000
1292	28.364361	1292	0.000000
1293	0.000000	1293	13.985644
1294	0.000000	1294	3.738274
1295	0.000000	1295	68.013892
1296	0.000000	1296	68.964195
1297	0.000000	1297	1.152913
1298	0.000000	1298	10.139567
1299	0.000000	1299	0.254099
1300	0.000000	1300	1.619547
1301	0.000000	1301	6.576807
1302	0.000000	1302	6.844287
1303	0.000000	1303	72.111363
1304	0.000000	1304	64.536089
1305	82.000000	1305	0.000000
1306	0.000000	1306	7.800593
1307	0.000000	1307	1.652163
1308	0.000000	1308	3.853092
1309	0.000000	1309	9.753531
1310	0.000000	1310	64.628338
1311	0.000000	1311	68.814214
1312	14.000000	1312	0.000000
1313	0.000000	1313	18.272255
1314	0.000000	1314	12.123825
1315	0.000000	1315	14.324754
1316	0.000000	1316	20.225193
1317	42.000000	1317	0.000000
1318	0.000000	1318	4.185876
1319	0.000000	1319	7.671662
1320	0.000000	1320	20.872255
1321	0.000000	1321	14.723825
1322	0.000000	1322	16.924754
1323	0.000000	1323	22.825193
1324	11.000000	1324	0.000000
1325	0.000000	1325	4.185876
1326	0.000000	1326	8.071662
1327	0.000000	1327	3.902524
1328	0.000000	1328	0.382254
1329	0.000000	1329	4.642166
1330	0.000000	1330	10.542606
1331	0.000000	1331	62.408311
1332	0.000000	1332	62.949696
1333	38.000000	1333	0.000000
1334	17.000000	1334	0.000000
1335	0.000000	1335	0.918534

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Coordenada x	Valor x	Coordenada z	Valor z
1336	35.000000	1336	0.000000
1337	0.000000	1337	2.755194
1338	48.000000	1338	0.000000
1339	0.000000	1339	34.947899
1340	14.000000	1340	0.000000
1341	0.000000	1341	3.483723
1342	0.000000	1342	5.680379
1343	102.000000	1343	0.000000
1344	0.000000	1344	3.929068
1345	0.000000	1345	1.552865
1346	0.000000	1346	67.804410
1347	0.000000	1347	61.752935
1348	0.000000	1348	1.343294
1349	44.000000	1349	0.000000
1350	0.000000	1350	5.787366
1351	0.000000	1351	60.291068
1352	0.000000	1352	57.550537
1353	0.000000	1353	3.504424
1354	9.000000	1354	0.000000
1355	0.000000	1355	0.125196
1356	0.000000	1356	1.924174
1357	0.000000	1357	5.377701
1358	0.000000	1358	52.808500
1359	0.000000	1359	52.205467
1360	0.000000	1360	3.504424
1361	6.000000	1361	0.000000
1362	0.000000	1362	0.125196
1363	0.000000	1363	1.924174
1364	0.000000	1364	5.377701
1365	0.000000	1365	44.708500
1366	0.000000	1366	44.105467
1367	18.000000	1367	0.000000
1368	0.000000	1368	10.160352
1369	0.000000	1369	9.581770
1370	0.000000	1370	53.279966
1371	0.000000	1371	51.018483
1372	0.000000	1372	10.559400
1373	24.000000	1373	0.000000
1374	0.000000	1374	10.559400
1375	6.000000	1375	0.000000
1376	0.000000	1376	10.559400
1377	1.000000	1377	0.000000
1378	0.000000	1378	4.615338
1379	0.000000	1379	8.254953
1380	7.000000	1380	0.000000
1381	0.000000	1381	4.340172
1382	10.000000	1382	0.000000
1383	11.000000	1383	0.000000
1384	0.000000	1384	0.917430

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Coordenada x	Valor x	Coordenada z	Valor z
1385	0.000000	1385	6.938547
1386	0.000000	1386	2.323209
1387	30.000000	1387	0.000000
1388	0.000000	1388	3.204942
1389	23.000000	1389	0.000000
1390	0.000000	1390	4.444072
1391	0.000000	1391	1.064612
1392	0.000000	1392	3.204942
1393	31.000000	1393	0.000000
1394	0.000000	1394	4.444072
1395	0.000000	1395	1.064612
1396	0.000000	1396	9.186992
1397	2.000000	1397	0.000000
1398	0.000000	1398	8.101368
1399	0.000000	1399	7.935604
1400	0.000000	1400	9.186992
1401	4.000000	1401	0.000000
1402	0.000000	1402	8.080952
1403	0.000000	1403	7.935604
1404	0.000000	1404	9.186992
1405	8.000000	1405	0.000000
1406	0.000000	1406	8.080942
1407	0.000000	1407	7.935604
1408	0.000000	1408	2.503807
1409	37.000000	1409	0.000000
1410	0.000000	1410	6.215432
1411	18.000000	1411	0.000000
1412	0.000000	1412	1.185745
1413	0.000000	1413	6.215432
1414	36.000000	1414	0.000000
1415	0.000000	1415	1.185745
1416	0.000000	1416	6.340479
1417	44.000000	1417	0.000000
1418	0.000000	1418	4.444072
1419	0.000000	1419	2.656911
1420	2.000000	1420	0.000000
1421	108.000000	1421	0.000000
1422	201.000000	1422	0.000000
1423	52.000000	1423	0.000000
1424	21.000000	1424	0.000000
1425	26.000000	1425	0.000000
1426	14.000000	1426	0.000000
1427	0.000000	1427	1.958749
1428	0.000000	1428	5.418999
1429	21.000000	1429	0.000000
1430	0.000000	1430	0.400000
1431	0.000000	1431	-0.491429
1432	0.000000	1432	59.526539
1433	0.000000	1433	56.550613

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Coordenada x	Valor x	Coordenada z	Valor z
1434	0.000000	1434	12.558749
1435	0.000000	1435	5.418999
1436	16.000000	1436	0.000000
1437	0.000000	1437	0.200000
1438	0.000000	1438	-0.491429
1439	0.000000	1439	10.526539
1440	0.000000	1440	7.550613
1441	0.000000	1441	17.658749
1442	0.000000	1442	5.418999
1443	35.407981	1443	0.000000
1444	42.592019	1444	0.000000
1445	0.000000	1445	-0.491429
1446	0.000000	1446	9.126539
1447	0.000000	1447	6.150613
1448	0.000000	1448	14.258749
1449	0.000000	1449	5.418999
1450	0.000000	1450	-0.000000
1451	3.000000	1451	0.000000
1452	0.000000	1452	-0.491429
1453	0.000000	1453	9.126539
1454	0.000000	1454	6.150613
1455	0.000000	1455	14.258749
1456	0.000000	1456	5.418999
1457	0.000000	1457	-0.000000
1458	19.000000	1458	0.000000
1459	0.000000	1459	-0.491429
1460	0.000000	1460	9.126539
1461	0.000000	1461	6.150613
1462	0.000000	1462	130.759666
1463	0.000000	1463	134.219917
1464	0.000000	1464	128.800918
1465	0.000000	1465	129.200918
1466	0.000000	1466	179.727457
1467	0.000000	1467	176.751531
1468	0.000000	1468	1.958749
1469	0.000000	1469	5.418999
1470	18.000000	1470	0.000000
1471	0.000000	1471	0.400000
1472	0.000000	1472	-0.491429
1473	0.000000	1473	50.926539
1474	0.000000	1474	47.950613
1475	0.000000	1475	131.259666
1476	0.000000	1476	134.719917
1477	0.000000	1477	129.300918
1478	0.000000	1478	129.700918
1479	0.000000	1479	180.227457
1480	0.000000	1480	177.251531
1481	0.000000	1481	3.558749
1482	0.000000	1482	5.418999

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Coordenada x	Valor x	Coordenada z	Valor z
1483	40.000000	1483	0.000000
1484	0.000000	1484	0.400000
1485	0.000000	1485	-0.491429
1486	0.000000	1486	56.626539
1487	0.000000	1487	53.650613
1488	0.000000	1488	1.958749
1489	0.000000	1489	5.418999
1490	7.000000	1490	0.000000
1491	0.000000	1491	0.400000
1492	0.000000	1492	-0.491429
1493	0.000000	1493	71.126539
1494	0.000000	1494	68.150613
1495	0.000000	1495	1.958749
1496	0.000000	1496	5.418999
1497	25.000000	1497	0.000000
1498	0.000000	1498	0.400000
1499	0.000000	1499	-0.491429
1500	0.000000	1500	49.126539
1501	0.000000	1501	46.150613
1502	0.000000	1502	134.559666
1503	0.000000	1503	139.819917
1504	0.000000	1504	134.400918
1505	0.000000	1505	134.800918
1506	0.000000	1506	133.909488
1507	0.000000	1507	178.827447
1508	0.000000	1508	175.851521
1509	0.000000	1509	0.258749
1510	0.000000	1510	5.418999
1511	28.000000	1511	0.000000
1512	0.000000	1512	0.400000
1513	0.000000	1513	-0.491429
1514	0.000000	1514	44.426539
1515	0.000000	1515	41.450613
1516	0.000000	1516	0.258749
1517	0.000000	1517	5.418999
1518	65.000000	1518	0.000000
1519	0.000000	1519	0.400000
1520	0.000000	1520	-0.491429
1521	0.000000	1521	44.426539
1522	0.000000	1522	41.450613
1523	0.000000	1523	1.958749
1524	0.000000	1524	5.418999
1525	16.000000	1525	0.000000
1526	0.000000	1526	0.400000
1527	0.000000	1527	-0.491429
1528	0.000000	1528	51.126539
1529	0.000000	1529	48.150613
1530	0.000000	1530	134.559666
1531	0.000000	1531	138.019917

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Coordenada x	Valor x	Coordenada z	Valor z
1532	0.000000	1532	132.600918
1533	0.000000	1533	133.000918
1534	0.000000	1534	183.727457
1535	0.000000	1535	180.751531
1536	0.000000	1536	1.958749
1537	0.000000	1537	5.418999
1538	-0.000000	1538	0.000000
1539	0.000000	1539	0.400000
1540	0.000000	1540	51.326539
1541	0.000000	1541	48.350613
1542	0.000000	1542	1.958749
1543	0.000000	1543	5.418999
1544	35.000000	1544	0.000000
1545	0.000000	1545	0.400000
1546	0.000000	1546	-0.491429
1547	0.000000	1547	45.526529
1548	0.000000	1548	42.550603
1549	0.000000	1549	3.558749
1550	0.000000	1550	5.418999
1551	64.000000	1551	0.000000
1552	0.000000	1552	0.400000
1553	0.000000	1553	-0.491429
1554	0.000000	1554	55.826539
1555	0.000000	1555	52.850613
1556	0.000000	1556	1.958749
1557	0.000000	1557	5.418999
1558	39.000000	1558	0.000000
1559	0.000000	1559	0.400000
1560	0.000000	1560	-0.491429
1561	0.000000	1561	55.426539
1562	0.000000	1562	52.450613
1563	0.000000	1563	1.958749
1564	0.000000	1564	5.418999
1565	41.000000	1565	0.000000
1566	0.000000	1566	0.400000
1567	0.000000	1567	-0.491429
1568	0.000000	1568	55.126539
1569	0.000000	1569	52.150613
1570	0.000000	1570	1.958749
1571	0.000000	1571	5.418999
1572	251.000000	1572	0.000000
1573	0.000000	1573	0.400000
1574	0.000000	1574	-0.491429
1575	0.000000	1575	51.426539
1576	0.000000	1576	48.450613
1577	35.000000	1577	0.000000
1578	0.000000	1578	10.460250
1579	0.000000	1579	5.041251
1580	0.000000	1580	10.741251

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Coordenada x	Valor x	Coordenada z	Valor z
1581	0.000000	1581	4.549822
1582	0.000000	1582	9.567791
1583	0.000000	1583	6.591864
1584	1.000000	1584	0.000000
1585	0.000000	1585	19.160250
1586	0.000000	1586	13.741251
1587	0.000000	1587	9.141251
1588	0.000000	1588	13.249822
1589	0.000000	1589	7.167791
1590	0.000000	1590	4.191864
1591	68.000000	1591	0.000000
1592	0.000000	1592	16.360250
1593	0.000000	1593	10.941251
1594	0.000000	1594	16.341251
1595	0.000000	1595	10.449822
1596	0.000000	1596	5.667791
1597	0.000000	1597	2.691864
1598	0.000000	1598	1.858749
1599	0.000000	1599	5.818999
1600	0.000000	1600	0.400000
1601	49.000000	1601	0.000000
1602	0.000000	1602	-0.091429
1603	0.000000	1603	35.676539
1604	0.000000	1604	32.700613
1605	0.000000	1605	1.768749
1606	0.000000	1606	5.818999
1607	0.000000	1607	0.400000
1608	413.000000	1608	0.000000
1609	0.000000	1609	-0.091429
1610	0.000000	1610	32.396539
1611	0.000000	1611	29.420613
1612	0.000000	1612	1.458749
1613	0.000000	1613	5.418999
1614	57.000000	1614	0.000000
1615	0.000000	1615	7.000000
1616	0.000000	1616	-0.491429
1617	0.000000	1617	27.226539
1618	0.000000	1618	24.250613
1619	0.000000	1619	0.000000
1620	0.000000	1620	6.157553
1621	0.000000	1621	1.505845
1622	45.000000	1622	0.000000
1623	0.000000	1623	-1.772245
1624	0.000000	1624	54.243557
1625	0.000000	1625	50.200000
1626	0.000000	1626	10.800000
1627	0.000000	1627	6.387553
1628	0.000000	1628	1.735845
1629	28.000000	1629	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
1630	0.000000	1630	-1.542245
1631	0.000000	1631	5.443557
1632	0.000000	1632	1.400000
1633	0.000000	1633	10.800000
1634	0.000000	1634	6.357553
1635	0.000000	1635	1.705845
1636	40.000000	1636	0.000000
1637	0.000000	1637	-1.572245
1638	0.000000	1638	5.443557
1639	0.000000	1639	1.400000
1640	0.000000	1640	13.300000
1641	0.000000	1641	6.557553
1642	0.000000	1642	1.905845
1643	129.000000	1643	0.000000
1644	0.000000	1644	-1.372245
1645	0.000000	1645	4.443557
1646	0.000000	1646	0.400000
1647	0.000000	1647	16.100000
1648	0.000000	1648	6.557553
1649	0.000000	1649	1.905845
1650	158.000000	1650	0.000000
1651	0.000000	1651	-1.372245
1652	0.000000	1652	4.243557
1653	0.000000	1653	0.200000
1654	0.000000	1654	12.700000
1655	0.000000	1655	6.557553
1656	0.000000	1656	1.905845
1657	23.000000	1657	0.000000
1658	0.000000	1658	-1.372245
1659	0.000000	1659	4.243557
1660	0.000000	1660	0.200000
1661	0.000000	1661	12.700000
1662	0.000000	1662	6.557553
1663	0.000000	1663	1.905845
1664	32.000000	1664	0.000000
1665	0.000000	1665	-1.372245
1666	0.000000	1666	4.243557
1667	0.000000	1667	0.200000
1668	0.000000	1668	117.127959
1669	0.000000	1669	123.285512
1670	0.000000	1670	118.633805
1671	0.000000	1671	117.127959
1672	0.000000	1672	162.771517
1673	0.000000	1673	158.727959
1674	0.000000	1674	0.000000
1675	0.000000	1675	6.157553
1676	0.000000	1676	1.505845
1677	16.000000	1677	0.000000
1678	0.000000	1678	-1.772245

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Coordenada x	Valor x	Coordenada z	Valor z
1679	0.000000	1679	45.643557
1680	0.000000	1680	41.600000
1681	0.000000	1681	117.627959
1682	0.000000	1682	123.785512
1683	0.000000	1683	119.133805
1684	0.000000	1684	117.627959
1685	0.000000	1685	163.271517
1686	0.000000	1686	159.227959
1687	0.000000	1687	1.600000
1688	0.000000	1688	6.157553
1689	0.000000	1689	1.505845
1690	18.000000	1690	0.000000
1691	0.000000	1691	-1.772245
1692	0.000000	1692	51.343557
1693	0.000000	1693	47.300000
1694	156.000000	1694	0.000000
1695	0.000000	1695	6.157553
1696	0.000000	1696	1.505845
1697	0.000000	1697	-0.000000
1698	0.000000	1698	3.727755
1699	0.000000	1699	65.843557
1700	0.000000	1700	61.800000
1701	0.000000	1701	0.000000
1702	0.000000	1702	6.157553
1703	0.000000	1703	1.505845
1704	105.000000	1704	0.000000
1705	0.000000	1705	3.727755
1706	0.000000	1706	65.843557
1707	0.000000	1707	61.800000
1708	0.000000	1708	0.000000
1709	0.000000	1709	6.157553
1710	0.000000	1710	1.505845
1711	20.000000	1711	0.000000
1712	0.000000	1712	-1.772245
1713	0.000000	1713	43.843557
1714	0.000000	1714	39.800000
1715	0.000000	1715	122.527959
1716	0.000000	1716	128.685512
1717	0.000000	1717	124.033805
1718	0.000000	1718	122.527959
1719	0.000000	1719	120.755714
1720	0.000000	1720	162.771517
1721	0.000000	1721	158.727959
1722	0.000000	1722	1.600000
1723	0.000000	1723	6.157553
1724	0.000000	1724	1.505845
1725	51.000000	1725	0.000000
1726	0.000000	1726	-1.772245
1727	0.000000	1727	50.543557

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Coordenada x	Valor x	Coordenada z	Valor z
1728	0.000000	1728	46.500000
1729	0.000000	1729	0.000000
1730	0.000000	1730	6.157553
1731	0.000000	1731	1.505845
1732	5.000000	1732	0.000000
1733	0.000000	1733	-1.772245
1734	0.000000	1734	49.943557
1735	0.000000	1735	45.900000
1736	77.131011	1736	0.000000
1737	0.000000	1737	6.157553
1738	0.000000	1738	1.505845
1739	44.868989	1739	0.000000
1740	0.000000	1740	-1.772245
1741	0.000000	1741	49.843557
1742	0.000000	1742	45.800000
1743	0.000000	1743	116.627959
1744	0.000000	1744	122.785512
1745	0.000000	1745	118.133805
1746	0.000000	1746	116.627959
1747	0.000000	1747	162.771517
1748	0.000000	1748	158.727959
1749	21.000000	1749	0.000000
1750	0.000000	1750	13.157553
1751	0.000000	1751	8.505845
1752	0.000000	1752	12.300000
1753	0.000000	1753	5.227755
1754	0.000000	1754	6.243557
1755	0.000000	1755	2.200000
1756	9.598837	1756	0.000000
1757	0.000000	1757	19.057553
1758	0.000000	1758	14.405845
1759	0.000000	1759	10.600000
1760	0.000000	1760	11.127755
1761	0.000000	1761	4.043557
1762	10.401163	1762	0.000000
1763	0.000000	1763	0.200000
1764	0.000000	1764	22.057553
1765	0.000000	1765	17.405845
1766	0.000000	1766	10.900000
1767	0.000000	1767	14.127755
1768	0.000000	1768	4.043557
1769	36.000000	1769	0.000000
1770	0.000000	1770	1.700000
1771	0.000000	1771	20.757553
1772	0.000000	1772	16.105845
1773	0.000000	1773	19.600000
1774	0.000000	1774	12.827755
1775	0.000000	1775	4.043557
1776	66.000000	1776	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
1777	0.000000	1777	0.500000
1778	0.000000	1778	7.157553
1779	0.000000	1779	2.505845
1780	55.000000	1780	0.000000
1781	0.000000	1781	-0.772245
1782	0.000000	1782	30.993557
1783	0.000000	1783	26.950000
1784	12.000000	1784	0.000000
1785	0.000000	1785	2.615365
1786	0.000000	1786	1.995161
1787	0.000000	1787	0.988696
1788	0.000000	1788	-2.246715
1789	0.000000	1789	54.575787
1790	0.000000	1790	54.168864
1791	0.000000	1791	9.811304
1792	0.000000	1792	1.826669
1793	0.000000	1793	1.206464
1794	26.000000	1794	0.000000
1795	0.000000	1795	-3.035411
1796	0.000000	1796	4.787091
1797	0.000000	1797	4.380168
1798	0.000000	1798	9.811304
1799	0.000000	1799	1.826669
1800	0.000000	1800	1.206464
1801	5.000000	1801	0.000000
1802	0.000000	1802	-3.035411
1803	0.000000	1803	4.787091
1804	0.000000	1804	4.380168
1805	0.000000	1805	15.111304
1806	0.000000	1806	2.026669
1807	0.000000	1807	1.406464
1808	101.000000	1808	0.000000
1809	0.000000	1809	-2.835411
1810	0.000000	1810	3.587091
1811	0.000000	1811	3.180168
1812	0.000000	1812	11.711304
1813	0.000000	1813	2.026669
1814	0.000000	1814	1.406464
1815	6.000000	1815	0.000000
1816	0.000000	1816	-2.835411
1817	0.000000	1817	3.587091
1818	0.000000	1818	3.180168
1819	0.000000	1819	115.983004
1820	0.000000	1820	118.598368
1821	0.000000	1821	117.978164
1822	0.000000	1822	116.971700
1823	0.000000	1823	161.958791
1824	0.000000	1824	161.551868
1825	9.000000	1825	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
1826	0.000000	1826	2.615365
1827	0.000000	1827	1.995161
1828	0.000000	1828	0.988696
1829	0.000000	1829	-2.246715
1830	0.000000	1830	45.975787
1831	0.000000	1831	45.568864
1832	104.000000	1832	0.000000
1833	0.000000	1833	2.615365
1834	0.000000	1834	1.995161
1835	0.000000	1835	0.988696
1836	0.000000	1836	3.253285
1837	0.000000	1837	66.175787
1838	0.000000	1838	65.768864
1839	40.000000	1839	0.000000
1840	0.000000	1840	2.615365
1841	0.000000	1841	1.995161
1842	0.000000	1842	0.988696
1843	0.000000	1843	-2.246715
1844	0.000000	1844	44.175787
1845	0.000000	1845	43.768864
1846	0.000000	1846	0.611304
1847	0.000000	1847	1.626669
1848	0.000000	1848	1.006464
1849	40.000000	1849	0.000000
1850	0.000000	1850	-3.235411
1851	0.000000	1851	49.887091
1852	0.000000	1852	49.480168
1853	42.000000	1853	0.000000
1854	0.000000	1854	2.615365
1855	0.000000	1855	1.995161
1856	0.000000	1856	0.988696
1857	0.000000	1857	-2.246715
1858	0.000000	1858	50.175787
1859	0.000000	1859	50.233068
1860	4.000000	1860	0.000000
1861	0.000000	1861	9.615365
1862	0.000000	1862	8.995161
1863	0.000000	1863	13.288696
1864	0.000000	1864	4.753285
1865	0.000000	1865	6.575787
1866	0.000000	1866	6.168864
1867	21.000000	1867	0.000000
1868	0.000000	1868	18.315365
1869	0.000000	1869	17.695161
1870	0.000000	1870	11.688696
1871	0.000000	1871	13.453285
1872	0.000000	1872	4.175787
1873	0.000000	1873	3.768864
1874	81.000000	1874	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
1875	0.000000	1875	15.515365
1876	0.000000	1876	14.895161
1877	0.000000	1877	18.888696
1878	0.000000	1878	10.653285
1879	0.000000	1879	2.675787
1880	0.000000	1880	2.268864
1881	0.000000	1881	9.421536
1882	0.000000	1882	8.653738
1883	0.000000	1883	0.307827
1884	0.000000	1884	0.139569
1885	0.000000	1885	-4.281068
1886	0.000000	1886	8.432332
1887	16.000000	1887	0.000000
1888	0.000000	1888	8.461536
1889	0.000000	1889	8.653738
1890	0.000000	1890	0.307827
1891	0.000000	1891	0.539569
1892	0.000000	1892	-4.281068
1893	0.000000	1893	8.432332
1894	9.000000	1894	0.000000
1895	0.000000	1895	15.921536
1896	0.000000	1896	10.053738
1897	0.000000	1897	1.707827
1898	0.000000	1898	1.739569
1899	0.000000	1899	-2.881068
1900	0.000000	1900	8.432332
1901	55.000000	1901	0.000000
1902	2.000000	1902	0.000000
1903	0.000000	1903	16.432202
1904	0.000000	1904	8.086291
1905	0.000000	1905	14.218033
1906	0.000000	1906	3.497396
1907	0.000000	1907	10.610796
1908	0.000000	1908	2.178464
1909	0.000000	1909	0.081967
1910	0.000000	1910	9.914169
1911	0.000000	1911	1.568258
1912	4.000000	1912	0.000000
1913	0.000000	1913	-3.020637
1914	0.000000	1914	9.692762
1915	0.000000	1915	1.260431
1916	0.000000	1916	0.021536
1917	0.000000	1917	22.853738
1918	0.000000	1918	14.507827
1919	0.000000	1919	12.539569
1920	0.000000	1920	9.918932
1921	0.000000	1921	8.432332
1922	18.000000	1922	0.000000
1923	0.000000	1923	0.021536

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Coordenada x	Valor x	Coordenada z	Valor z
1924	0.000000	1924	22.853738
1925	0.000000	1925	14.507827
1926	0.000000	1926	5.539569
1927	0.000000	1927	9.918932
1928	0.000000	1928	8.432332
1929	48.000000	1929	0.000000
1930	0.000000	1930	0.221536
1931	0.000000	1931	25.753738
1932	0.000000	1932	17.407827
1933	0.000000	1933	12.839569
1934	0.000000	1934	12.818932
1935	0.000000	1935	8.432332
1936	39.000000	1936	0.000000
1937	0.000000	1937	12.852722
1938	0.000000	1938	12.696364
1939	0.000000	1939	1.830581
1940	0.000000	1940	7.659665
1941	0.000000	1941	-3.611664
1942	0.000000	1942	0.896144
1943	88.000000	1943	0.000000
1944	0.000000	1944	4.317782
1945	0.000000	1945	9.658402
1946	0.000000	1946	0.803253
1947	3.000000	1947	0.000000
1948	0.000000	1948	-1.746348
1949	0.000000	1949	5.226065
1950	0.000000	1950	9.517782
1951	0.000000	1951	9.758402
1952	0.000000	1952	0.903253
1953	45.000000	1953	0.000000
1954	0.000000	1954	-1.646348
1955	0.000000	1955	3.926065
1956	1.000000	1956	0.000000
1957	0.000000	1957	29.140620
1958	0.000000	1958	20.285471
1959	0.000000	1959	17.382218
1960	0.000000	1960	17.735870
1961	0.000000	1961	10.577704
1962	21.000000	1962	0.000000
1963	0.000000	1963	15.940620
1964	0.000000	1964	7.085471
1965	0.000000	1965	4.582218
1966	0.000000	1966	4.535870
1967	0.000000	1967	11.508283
1968	31.000000	1968	0.000000
1969	0.000000	1969	22.940620
1970	0.000000	1970	14.085471
1971	0.000000	1971	21.265177
1972	0.000000	1972	11.535870

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Coordenada x	Valor x	Coordenada z	Valor z
1973	0.000000	1973	12.508283
1974	76.000000	1974	0.000000
1975	0.000000	1975	31.640620
1976	0.000000	1976	22.785471
1977	0.000000	1977	17.282218
1978	0.000000	1978	20.235870
1979	0.000000	1979	10.108283
1980	30.000000	1980	0.000000
1981	0.000000	1981	28.840620
1982	0.000000	1982	19.985471
1983	0.000000	1983	24.482218
1984	0.000000	1984	17.435870
1985	0.000000	1985	8.608283
1986	0.000000	1986	12.270295
1987	0.000000	1987	4.611251
1988	0.000000	1988	4.152672
1989	0.000000	1989	5.795788
1990	0.000000	1990	-0.089203
1991	31.000000	1991	0.000000
1992	25.000000	1992	0.000000
1993	0.000000	1993	8.040956
1994	0.000000	1994	7.582378
1995	0.000000	1995	9.625494
1996	0.000000	1996	3.340502
1997	0.000000	1997	65.429705
1998	46.000000	1998	0.000000
1999	0.000000	1999	8.040956
2000	0.000000	2000	7.582378
2001	0.000000	2001	7.625494
2002	0.000000	2002	3.340502
2003	0.000000	2003	4.829705
2004	9.000000	2004	0.000000
2005	0.000000	2005	17.108875
2006	0.000000	2006	11.778340
2007	0.000000	2007	9.423659
2008	0.000000	2008	14.000249
2009	0.000000	2009	68.232662
2010	0.000000	2010	70.420291
2011	34.000000	2011	0.000000
2012	0.000000	2012	29.011917
2013	0.000000	2013	28.391713
2014	0.000000	2014	20.247271
2015	0.000000	2015	24.149837
2016	0.000000	2016	10.646217
2017	0.000000	2017	6.469089
2018	9.000000	2018	0.000000
2019	0.000000	2019	26.211917
2020	0.000000	2020	25.591713
2021	0.000000	2021	27.447271

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Coordenada x	Valor x	Coordenada z	Valor z
2022	0.000000	2022	21.349837
2023	0.000000	2023	9.146217
2024	0.000000	2024	4.969089
2025	0.000000	2025	117.127959
2026	0.000000	2026	120.228164
2027	0.000000	2027	117.555803
2028	0.000000	2028	165.875232
2029	0.000000	2029	161.921868
2030	27.000000	2030	0.000000
2031	0.000000	2031	3.100205
2032	0.000000	2032	0.427844
2033	0.000000	2033	0.477755
2034	0.000000	2034	48.747273
2035	0.000000	2035	44.793908
2036	0.000000	2036	117.627959
2037	0.000000	2037	120.728164
2038	0.000000	2038	118.055803
2039	0.000000	2039	166.375232
2040	0.000000	2040	162.421868
2041	42.000000	2041	0.000000
2042	0.000000	2042	3.100205
2043	0.000000	2043	0.427844
2044	0.000000	2044	0.477755
2045	0.000000	2045	45.447273
2046	0.000000	2046	41.493908
2047	0.000000	2047	120.927959
2048	0.000000	2048	124.028164
2049	0.000000	2049	121.355803
2050	0.000000	2050	166.375232
2051	0.000000	2051	162.421868
2052	0.000000	2052	120.927959
2053	0.000000	2053	125.828164
2054	0.000000	2054	123.155803
2055	0.000000	2055	164.975232
2056	0.000000	2056	161.021868
2057	0.000000	2057	17.059795
2058	21.000000	2058	0.000000
2059	0.000000	2059	17.487639
2060	0.000000	2060	17.537550
2061	0.000000	2061	63.207068
2062	0.000000	2062	59.253703
2063	0.000000	2063	120.327959
2064	0.000000	2064	125.128164
2065	0.000000	2065	122.455803
2066	0.000000	2066	164.275232
2067	0.000000	2067	160.321868
2068	0.000000	2068	120.327959
2069	0.000000	2069	125.128164
2070	0.000000	2070	122.455803

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Coordenada x	Valor x	Coordenada z	Valor z
2071	0.000000	2071	164.275232
2072	0.000000	2072	160.321868
2073	30.000000	2073	0.000000
2074	0.000000	2074	3.100205
2075	0.000000	2075	0.427844
2076	0.000000	2076	49.047273
2077	0.000000	2077	45.093908
2078	0.000000	2078	121.927959
2079	0.000000	2079	124.028164
2080	0.000000	2080	121.355803
2081	0.000000	2081	169.875232
2082	0.000000	2082	165.921868
2083	9.000000	2083	0.000000
2084	0.000000	2084	3.100205
2085	0.000000	2085	0.427844
2086	0.000000	2086	0.477755
2087	0.000000	2087	53.047273
2088	0.000000	2088	49.093908
2089	0.000000	2089	115.983004
2090	0.000000	2090	119.621090
2091	0.000000	2091	118.141776
2092	0.000000	2092	163.141517
2093	0.000000	2093	161.921868
2094	0.000000	2094	116.483004
2095	0.000000	2095	120.121090
2096	0.000000	2096	118.641776
2097	0.000000	2097	163.641517
2098	0.000000	2098	162.421868
2099	0.000000	2099	119.183004
2100	0.000000	2100	124.521090
2101	0.000000	2101	123.041776
2102	0.000000	2102	161.541517
2103	0.000000	2103	160.321868
2104	15.000000	2104	0.000000
2105	0.000000	2105	2.038086
2106	0.000000	2106	0.558773
2107	0.000000	2107	-1.596715
2108	0.000000	2108	50.458513
2109	0.000000	2109	49.238864
2110	62.000000	2110	0.000000
2111	0.000000	2111	16.538086
2112	0.000000	2112	12.758773
2113	0.000000	2113	12.903285
2114	0.000000	2114	5.558513
2115	0.000000	2115	4.338864
2116	20.000000	2116	0.000000
2117	0.000000	2117	5.525344
2118	0.000000	2118	4.536421
2119	0.000000	2119	-1.491850

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Coordenada x	Valor x	Coordenada z	Valor z
2120	0.000000	2120	68.357008
2121	0.000000	2121	67.024422
2122	21.000000	2122	0.000000
2123	0.000000	2123	26.684118
2124	0.000000	2124	20.561834
2125	0.000000	2125	22.442243
2126	0.000000	2126	8.017854
2127	0.000000	2127	2.331742
2128	169.000000	2128	0.000000
2129	0.000000	2129	7.607426
2130	0.000000	2130	71.300190
2131	0.000000	2131	70.475244
2132	0.000000	2132	8.017854
2133	0.000000	2133	2.331742
2134	96.000000	2134	0.000000
2135	0.000000	2135	7.607426
2136	0.000000	2136	71.300190
2137	0.000000	2137	70.475244
2138	0.000000	2138	8.345910
2139	54.000000	2139	0.000000
2140	0.000000	2140	-4.426953
2141	89.000000	2141	0.000000
2142	0.000000	2142	23.754856
2143	19.000000	2143	0.000000
2144	0.000000	2144	23.674856
2145	46.000000	2145	0.000000
2146	3.000000	2146	0.000000
2147	7.000000	2147	0.000000
2148	9.000000	2148	0.000000
2149	3.000000	2149	0.000000
2150	68.000000	2150	0.000000
2151	7.000000	2151	0.000000
2152	17.000000	2152	0.000000
2153	7.000000	2153	0.000000
2154	17.000000	2154	0.000000
2155	13.000000	2155	0.000000
2156	11.000000	2156	0.000000
2157	11.000000	2157	0.000000
2158	30.000000	2158	0.000000
2159	21.000000	2159	0.000000
2160	10.000000	2160	0.000000
2161	7.000000	2161	0.000000
2162	24.000000	2162	0.000000
2163	0.000000	2163	1.805144
2164	55.000000	2164	0.000000
2165	0.000000	2165	1.005144
2166	143.000000	2166	0.000000
2167	0.000000	2167	1.205144
2168	16.000000	2168	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
2169	111.000000	2169	0.000000
2170	0.000000	2170	0.000000
2171	203.108484	2171	0.000000
2172	45.891516	2172	0.000000
2173	0.000000	2173	2.310000
2174	40.000000	2174	0.000000
2175	0.000000	2175	1.510000
2176	78.000000	2176	0.000000
2177	0.000000	2177	5.230000
2178	34.000000	2178	0.000000
2179	0.000000	2179	1.830000
2180	12.000000	2180	0.000000
2181	38.000000	2181	0.000000
2182	0.000000	2182	40.570000
2183	48.000000	2183	0.000000
2184	0.000000	2184	9.890000
2185	16.000000	2185	0.000000
2186	0.000000	2186	23.680000
2187	45.000000	2187	0.000000
2188	0.000000	2188	23.560000
2189	22.000000	2189	0.000000
2190	0.000000	2190	0.080798
2191	56.000000	2191	0.000000
2192	0.000000	2192	0.080798
2193	6.000000	2193	0.000000
2194	0.000000	2194	0.200798
2195	0.000000	2195	1.429202
2196	33.000000	2196	0.000000
2197	0.000000	2197	5.149202
2198	2.000000	2198	0.000000
2199	0.000000	2199	1.805055
2200	9.000000	2200	0.000000
2201	12.000000	2201	0.000000
2202	0.000000	2202	21.854945
2203	50.000000	2203	0.000000
2204	0.000000	2204	21.854945
2205	79.000000	2205	0.000000
2206	0.000000	2206	2.553685
2207	32.000000	2207	0.000000
2208	0.000000	2208	2.443880
2209	0.000000	2209	2.553685
2210	52.000000	2210	0.000000
2211	0.000000	2211	2.443880
2212	0.000000	2212	7.891452
2213	57.000000	2213	0.000000
2214	0.000000	2214	7.786277
2215	0.000000	2215	5.954479
2216	97.000000	2216	0.000000
2217	0.000000	2217	2.200929

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Coordenada x	Valor x	Coordenada z	Valor z
2218	0.000000	2218	10.873877
2219	0.000000	2219	0.235713
2220	0.000000	2220	5.954479
2221	15.000000	2221	0.000000
2222	0.000000	2222	2.200929
2223	0.000000	2223	9.773877
2224	0.000000	2224	0.235713
2225	0.000000	2225	9.180602
2226	0.000000	2226	3.226123
2227	0.000000	2227	5.427052
2228	3.000000	2228	0.000000
2229	0.000000	2229	0.661836
2230	0.000000	2230	12.471528
2231	0.000000	2231	6.226123
2232	0.000000	2232	8.427052
2233	14.000000	2233	0.000000
2234	0.000000	2234	1.461836
2235	0.000000	2235	10.880602
2236	0.000000	2236	4.926123
2237	0.000000	2237	7.127052
2238	5.000000	2238	0.000000
2239	0.000000	2239	5.161836
2240	0.000000	2240	5.954479
2241	58.000000	2241	0.000000
2242	0.000000	2242	2.200929
2243	0.000000	2243	11.750130
2244	0.000000	2244	5.118673
2245	0.000000	2245	5.954479
2246	65.000000	2246	0.000000
2247	0.000000	2247	2.200929
2248	0.000000	2248	72.350130
2249	0.000000	2249	65.718673
2250	0.000000	2250	17.935806
2251	0.000000	2251	11.981327
2252	0.000000	2252	14.182256
2253	0.000000	2253	6.631458
2254	4.000000	2254	0.000000
2255	0.000000	2255	16.635806
2256	0.000000	2256	10.681327
2257	0.000000	2257	12.882256
2258	0.000000	2258	6.631458
2259	14.000000	2259	0.000000
2260	0.000000	2260	7.256552
2261	0.000000	2261	1.724835
2262	0.000000	2262	3.382996
2263	0.000000	2263	20.135154
2264	0.000000	2264	8.326402
2265	0.000000	2265	3.383743
2266	36.000000	2266	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
2267	0.000000	2267	16.572809
2268	0.000000	2268	11.041092
2269	0.000000	2269	12.699253
2270	0.000000	2270	29.451411
2271	0.000000	2271	17.642659
2272	28.000000	2272	0.000000
2273	0.000000	2273	6.516257
2274	0.000000	2274	5.006592
2275	33.000000	2275	0.000000
2276	0.000000	2276	5.115895
2277	0.000000	2277	23.337346
2278	0.000000	2278	10.812074
2279	0.000000	2279	66.455948
2280	0.000000	2280	61.099772
2281	0.000000	2281	6.827258
2282	11.000000	2282	0.000000
2283	0.000000	2283	3.803606
2284	0.000000	2284	42.804448
2285	0.000000	2285	13.822809
2286	0.000000	2286	6.995552
2287	0.000000	2287	10.799157
2288	52.000000	2288	0.000000
2289	0.000000	2289	5.006592
2290	7.000000	2290	0.000000
2291	0.000000	2291	5.115895
2292	0.000000	2292	4.852889
2293	33.000000	2293	0.000000
2294	0.000000	2294	1.658161
2295	0.000000	2295	5.531717
2296	52.000000	2296	0.000000
2297	0.000000	2297	1.658161
2298	0.000000	2298	5.531717
2299	3.000000	2299	0.000000
2300	0.000000	2300	1.658161
2301	0.000000	2301	4.520765
2302	26.000000	2302	0.000000
2303	0.000000	2303	5.382840
2304	5.000000	2304	0.000000
2305	17.000000	2305	0.000000
2306	12.000000	2306	0.000000
2307	30.000000	2307	0.000000
2308	35.000000	2308	0.000000
2309	22.000000	2309	0.000000
2310	11.000000	2310	0.000000
2311	18.000000	2311	0.000000
2312	9.000000	2312	0.000000
2313	5.000000	2313	0.000000
2314	6.000000	2314	0.000000
2315	19.000000	2315	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
2316	9.000000	2316	0.000000
2317	30.000000	2317	0.000000
2318	14.000000	2318	0.000000
2319	22.000000	2319	0.000000
2320	10.000000	2320	0.000000
2321	9.000000	2321	0.000000
2322	19.000000	2322	0.000000
2323	0.000000	2323	6.607124
2324	467.000000	2324	0.000000
2325	0.000000	2325	5.338770
2326	0.000000	2326	2.223563
2327	62.000000	2327	0.000000
2328	0.000000	2328	10.038770
2329	0.000000	2329	2.423563
2330	52.000000	2330	0.000000
2331	0.000000	2331	5.715207
2332	40.000000	2332	0.000000
2333	0.000000	2333	1.276437
2334	0.000000	2334	3.849492
2335	0.000000	2335	1.749544
2336	190.000000	2336	0.000000
2337	0.000000	2337	10.449492
2338	0.000000	2338	5.549544
2339	4.000000	2339	0.000000
2340	0.000000	2340	10.449492
2341	0.000000	2341	5.549544
2342	102.000000	2342	0.000000
2343	0.000000	2343	4.849492
2344	0.000000	2344	1.849544
2345	41.000000	2345	0.000000
2346	138.000000	2346	0.000000
2347	24.000000	2347	0.000000
2348	121.000000	2348	0.000000
2349	53.000000	2349	0.000000
2350	22.000000	2350	0.000000
2351	3.000000	2351	0.000000
2352	449.000000	2352	0.000000
2353	47.000000	2353	0.000000
2354	817.000000	2354	0.000000
2355	9.000000	2355	0.000000
2356	30.000000	2356	0.000000
2357	1481.000000	2357	0.000000
2358	25.000000	2358	0.000000
2359	95.000000	2359	0.000000
2360	83.000000	2360	0.000000
2361	111.000000	2361	0.000000
2362	11.000000	2362	0.000000
2363	46.000000	2363	0.000000
2364	0.000000	2364	1.562770

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Coordenada x	Valor x	Coordenada z	Valor z
2365	0.000000	2365	36.011236
2366	0.000000	2366	33.915349
2367	78.000000	2367	0.000000
2368	0.000000	2368	1.562770
2369	0.000000	2369	40.211236
2370	0.000000	2370	38.215349
2371	52.000000	2371	0.000000
2372	0.000000	2372	1.562770
2373	0.000000	2373	35.311236
2374	0.000000	2374	33.515349
2375	38.000000	2375	0.000000
2376	0.000000	2376	1.562770
2377	0.000000	2377	28.011236
2378	0.000000	2378	26.015349
2379	127.000000	2379	0.000000
2380	0.000000	2380	1.562770
2381	0.000000	2381	38.311236
2382	0.000000	2382	40.815349
2383	117.000000	2383	0.000000
2384	0.000000	2384	1.562770
2385	0.000000	2385	28.611236
2386	0.000000	2386	26.515349
2387	65.000000	2387	0.000000
2388	0.000000	2388	1.562770
2389	0.000000	2389	35.411236
2390	0.000000	2390	34.215349
2391	37.000000	2391	0.000000
2392	0.000000	2392	1.562770
2393	0.000000	2393	38.311236
2394	0.000000	2394	36.315349
2395	103.000000	2395	0.000000
2396	0.000000	2396	1.562770
2397	0.000000	2397	31.715349
2398	73.000000	2398	0.000000
2399	0.000000	2399	5.871196
2400	0.000000	2400	28.819952
2401	0.000000	2401	34.095700
2402	0.000000	2402	47.959955
2403	226.000000	2403	0.000000
2404	0.000000	2404	5.871196
2405	0.000000	2405	28.819952
2406	0.000000	2406	34.095700
2407	0.000000	2407	47.959955
2408	20.000000	2408	0.000000
2409	0.000000	2409	5.871196
2410	0.000000	2410	36.219952
2411	0.000000	2411	38.395700
2412	0.000000	2412	52.259955
2413	41.000000	2413	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
2414	0.000000	2414	5.871196
2415	0.000000	2415	24.019952
2416	0.000000	2416	26.195700
2417	0.000000	2417	40.349955
2418	84.000000	2418	0.000000
2419	0.000000	2419	5.871196
2420	0.000000	2420	24.019952
2421	0.000000	2421	26.195700
2422	0.000000	2422	40.349955
2423	290.000000	2423	0.000000
2424	0.000000	2424	5.871196
2425	0.000000	2425	34.219952
2426	0.000000	2426	40.995700
2427	0.000000	2427	55.149955
2428	96.000000	2428	0.000000
2429	0.000000	2429	5.871196
2430	0.000000	2430	34.219952
2431	0.000000	2431	40.995700
2432	0.000000	2432	55.149955
2433	132.000000	2433	0.000000
2434	0.000000	2434	5.871196
2435	0.000000	2435	23.719952
2436	0.000000	2436	26.695700
2437	0.000000	2437	40.849955
2438	272.000000	2438	0.000000
2439	0.000000	2439	5.871196
2440	0.000000	2440	23.719952
2441	0.000000	2441	26.695700
2442	0.000000	2442	40.849955
2443	349.000000	2443	0.000000
2444	0.000000	2444	5.871196
2445	0.000000	2445	31.419952
2446	0.000000	2446	34.395700
2447	0.000000	2447	48.259955
2448	192.000000	2448	0.000000
2449	0.000000	2449	5.871196
2450	0.000000	2450	29.519952
2451	0.000000	2451	31.795700
2452	0.000000	2452	45.659955
2453	106.000000	2453	0.000000
2454	0.000000	2454	4.471196
2455	0.000000	2455	30.095700
2456	0.000000	2456	44.249955
2457	76.000000	2457	0.000000
2458	0.000000	2458	2.971196
2459	0.000000	2459	24.819952
2460	0.000000	2460	25.895700
2461	0.000000	2461	39.759955
2462	232.000000	2462	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
2463	0.000000	2463	2.971196
2464	0.000000	2464	24.719952
2465	0.000000	2465	27.495700
2466	0.000000	2466	41.649955
2467	168.000000	2467	0.000000
2468	0.000000	2468	2.971196
2469	0.000000	2469	24.719952
2470	0.000000	2470	27.495700
2471	0.000000	2471	41.649955
2472	60.000000	2472	0.000000
2473	0.000000	2473	2.971196
2474	0.000000	2474	23.719952
2475	0.000000	2475	25.095700
2476	0.000000	2476	39.249955
2477	46.000000	2477	0.000000
2478	0.000000	2478	2.971196
2479	0.000000	2479	23.719952
2480	0.000000	2480	25.095700
2481	0.000000	2481	39.249955
2482	86.000000	2482	0.000000
2483	0.000000	2483	5.871196
2484	0.000000	2484	32.319952
2485	0.000000	2485	34.295700
2486	229.000000	2486	0.000000
2487	0.000000	2487	5.707711
2488	516.000000	2488	0.000000
2489	0.000000	2489	6.812230
2490	0.000000	2490	3.284385
2491	412.000000	2491	0.000000
2492	0.000000	2492	6.244995
2493	72.000000	2493	0.000000
2494	0.000000	2494	3.444995
2495	83.000000	2495	0.000000
2496	268.000000	2496	0.000000
2497	0.000000	2497	10.632315
2498	243.000000	2498	0.000000
2499	0.000000	2499	1.332315
2500	59.000000	2500	0.000000
2501	0.000000	2501	6.932315
2502	109.000000	2502	0.000000
2503	0.000000	2503	5.232315
2504	52.000000	2504	0.000000
2505	0.000000	2505	11.493393
2506	2.000000	2506	0.000000
2507	30.000000	2507	0.000000
2508	89.000000	2508	0.000000
2509	0.000000	2509	2.900010
2510	48.397590	2510	0.000000
2511	0.602410	2511	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
2512	52.000000	2512	0.000000
2513	0.000000	2513	0.100000
2514	11.000000	2514	0.000000
2515	679.000000	2515	0.000000
2516	5.000000	2516	0.000000
2517	48.000000	2517	0.000000
2518	0.000000	2518	0.275718
2519	15.000000	2519	0.000000
2520	0.000000	2520	4.175718
2521	308.000000	2521	0.000000
2522	0.000000	2522	0.746661
2523	32.000000	2523	0.000000
2524	27.000000	2524	0.000000
2525	0.000000	2525	0.918534
2526	56.000000	2526	0.000000
2527	0.000000	2527	11.532010
2528	0.000000	2528	2.215176
2529	205.000000	2529	0.000000
2530	0.000000	2530	2.215176
2531	10.000000	2531	0.000000
2532	46.000000	2532	0.000000
2533	50.000000	2533	0.000000
2534	26.000000	2534	0.000000
2535	26.000000	2535	0.000000
2536	284.000000	2536	0.000000
2537	69.000000	2537	0.000000
2538	10.000000	2538	0.000000
2539	10.000000	2539	0.000000
2540	12.000000	2540	0.000000
2541	86.000000	2541	0.000000
2542	17.000000	2542	0.000000
2543	2.000000	2543	0.000000
2544	7.000000	2544	0.000000
2545	6.000000	2545	0.000000
2546	39.000000	2546	0.000000
2547	40.000000	2547	0.000000
2548	148.000000	2548	0.000000
2549	23.000000	2549	0.000000
2550	14.000000	2550	0.000000
2551	8.000000	2551	0.000000
2552	0.000000	2552	11.083717
2553	0.000000	2553	9.532452
2554	28.000000	2554	0.000000
2555	0.000000	2555	11.083717
2556	0.000000	2556	9.532452
2557	33.000000	2557	0.000000
2558	0.000000	2558	11.083717
2559	13.000000	2559	0.000000
2560	0.000000	2560	5.403408

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Coordenada x	Valor x	Coordenada z	Valor z
2561	0.000000	2561	4.699499
2562	3.000000	2562	0.000000
2563	0.000000	2563	5.403408
2564	0.000000	2564	4.699499
2565	7.000000	2565	0.000000
2566	0.000000	2566	5.403408
2567	0.000000	2567	4.699499
2568	2.000000	2568	0.000000
2569	0.000000	2569	5.403408
2570	0.000000	2570	4.699499
2571	26.000000	2571	0.000000
2572	0.000000	2572	10.944909
2573	0.000000	2573	9.393644
2574	5.000000	2574	0.000000
2575	0.000000	2575	10.944909
2576	0.000000	2576	9.393644
2577	16.000000	2577	0.000000
2578	0.000000	2578	10.944909
2579	0.000000	2579	9.393644
2580	4.000000	2580	0.000000
2581	0.000000	2581	10.944909
2582	0.000000	2582	9.393644
2583	30.000000	2583	0.000000
2584	0.000000	2584	10.944909
2585	0.000000	2585	9.393644
2586	2.000000	2586	0.000000
2587	0.000000	2587	11.083717
2588	0.000000	2588	10.299114
2589	21.000000	2589	0.000000
2590	0.000000	2590	11.083717
2591	0.000000	2591	10.240140
2592	7.000000	2592	0.000000
2593	0.000000	2593	11.083717
2594	0.000000	2594	10.299114
2595	13.000000	2595	0.000000
2596	0.000000	2596	5.403408
2597	0.000000	2597	4.699499
2598	9.000000	2598	0.000000
2599	0.000000	2599	5.403408
2600	0.000000	2600	4.699499
2601	15.000000	2601	0.000000
2602	0.000000	2602	8.457182
2603	0.000000	2603	8.903267
2604	26.000000	2604	0.000000
2605	0.000000	2605	8.457182
2606	0.000000	2606	8.903267
2607	6.000000	2607	0.000000
2608	0.000000	2608	8.457182
2609	0.000000	2609	8.903267

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Coordenada x	Valor x	Coordenada z	Valor z
2610	27.000000	2610	0.000000
2611	0.000000	2611	10.944909
2612	0.000000	2612	9.393644
2613	11.000000	2613	0.000000
2614	0.000000	2614	10.944909
2615	0.000000	2615	9.393644
2616	13.000000	2616	0.000000
2617	0.000000	2617	10.944909
2618	0.000000	2618	9.393644
2619	18.000000	2619	0.000000
2620	0.000000	2620	10.944909
2621	0.000000	2621	9.393644
2622	66.000000	2622	0.000000
2623	0.000000	2623	10.944909
2624	0.000000	2624	9.393644
2625	12.000000	2625	0.000000
2626	0.000000	2626	11.083717
2627	0.000000	2627	9.355530
2628	7.000000	2628	0.000000
2629	0.000000	2629	11.083717
2630	0.000000	2630	9.355530
2631	0.000000	2631	231.544470
2632	0.000000	2632	242.628187
2633	4.000000	2633	0.000000
2634	12.000000	2634	0.000000
2635	0.000000	2635	11.083717
2636	0.000000	2636	9.355530
2637	5.000000	2637	0.000000
2638	0.000000	2638	11.083717
2639	0.000000	2639	9.355530
2640	6.000000	2640	0.000000
2641	0.000000	2641	10.597890
2642	0.000000	2642	9.459442
2643	3.000000	2643	0.000000
2644	0.000000	2644	10.597890
2645	0.000000	2645	9.459442
2646	5.000000	2646	0.000000
2647	0.000000	2647	10.597890
2648	0.000000	2648	9.459442
2649	2.000000	2649	0.000000
2650	0.000000	2650	10.597890
2651	0.000000	2651	9.459442
2652	4.000000	2652	0.000000
2653	0.000000	2653	10.597890
2654	0.000000	2654	9.459442
2655	2.000000	2655	0.000000
2656	0.000000	2656	10.597890
2657	0.000000	2657	9.459442
2658	4.000000	2658	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
2659	0.000000	2659	13.997683
2660	0.000000	2660	9.203545
2661	9.000000	2661	0.000000
2662	0.000000	2662	13.997683
2663	0.000000	2663	9.203545
2664	14.000000	2664	0.000000
2665	0.000000	2665	5.403408
2666	0.000000	2666	4.699499
2667	27.000000	2667	0.000000
2668	0.000000	2668	7.814180
2669	0.000000	2669	6.660536
2670	21.000000	2670	0.000000
2671	0.000000	2671	10.944909
2672	0.000000	2672	9.393644
2673	14.000000	2673	0.000000
2674	0.000000	2674	11.083717
2675	0.000000	2675	10.299114
2676	16.000000	2676	0.000000
2677	0.000000	2677	10.597890
2678	0.000000	2678	10.403027
2679	5.000000	2679	0.000000
2680	0.000000	2680	5.403408
2681	16.000000	2681	0.000000
2682	0.000000	2682	5.403408
2683	5.000000	2683	0.000000
2684	0.000000	2684	5.403408
2685	0.000000	2685	1.766382
2686	1.000000	2686	0.000000
2687	0.000000	2687	6.745218
2688	5.000000	2688	0.000000
2689	0.000000	2689	6.745218
2690	2.000000	2690	0.000000
2691	0.000000	2691	10.944909
2692	4.000000	2692	0.000000
2693	0.000000	2693	10.944909
2694	10.000000	2694	0.000000
2695	0.000000	2695	5.403408
2696	0.000000	2696	5.849493
2697	19.000000	2697	0.000000
2698	0.000000	2698	8.457182
2699	0.000000	2699	2.617853
2700	0.000000	2700	8.903267
2701	7.000000	2701	0.000000
2702	0.000000	2702	8.457182
2703	0.000000	2703	2.617853
2704	0.000000	2704	8.903267
2705	4.000000	2705	0.000000
2706	0.000000	2706	8.457182
2707	0.000000	2707	2.617853

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Coordenada x	Valor x	Coordenada z	Valor z
2708	0.000000	2708	8.903267
2709	34.000000	2709	0.000000
2710	0.000000	2710	10.944909
2711	0.000000	2711	0.188278
2712	0.000000	2712	9.393644
2713	11.000000	2713	0.000000
2714	27.000000	2714	0.000000
2715	0.000000	2715	6.021977
2716	276.000000	2716	0.000000
2717	0.000000	2717	11.021977
2718	232.000000	2718	0.000000
2719	0.000000	2719	3.860130
2720	23.000000	2720	0.000000
2721	0.000000	2721	8.860130
2722	43.000000	2722	0.000000
2723	22.000000	2723	0.000000
2724	0.000000	2724	11.097335
2725	0.000000	2725	6.124397
2726	15.000000	2726	0.000000
2727	0.000000	2727	3.727844
2728	9.000000	2728	0.000000
2729	0.000000	2729	3.727844
2730	14.000000	2730	0.000000
2731	0.000000	2731	8.232362
2732	30.000000	2732	0.000000
2733	0.000000	2733	8.232362
2734	168.000000	2734	0.000000
2735	0.000000	2735	4.699499
2736	4.000000	2736	0.000000
2737	0.000000	2737	4.699499
2738	0.000000	2738	9.202466
2739	11.000000	2739	0.000000
2740	0.000000	2740	9.202466
2741	10.000000	2741	0.000000
2742	0.000000	2742	9.202466
2743	12.000000	2743	0.000000
2744	0.000000	2744	9.202466
2745	5.000000	2745	0.000000
2746	0.000000	2746	8.201590
2747	3.000000	2747	0.000000
2748	0.000000	2748	9.202466
2749	3.000000	2749	0.000000
2750	0.000000	2750	9.202466
2751	18.000000	2751	0.000000
2752	0.000000	2752	9.202466
2753	4.000000	2753	0.000000
2754	0.000000	2754	9.202466
2755	4.000000	2755	0.000000
2756	0.000000	2756	9.202466

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Coordenada x	Valor x	Coordenada z	Valor z
2757	3.000000	2757	0.000000
2758	35.000000	2758	0.000000
2759	27.000000	2759	0.000000
2760	8.000000	2760	0.000000
2761	162.000000	2761	0.000000
2762	36.000000	2762	0.000000
2763	125.000000	2763	0.000000
2764	24.000000	2764	0.000000
2765	0.000000	2765	5.800032
2766	196.000000	2766	0.000000
2767	0.000000	2767	11.821432
2768	13.000000	2768	0.000000
2769	0.000000	2769	11.821432
2770	13.000000	2770	0.000000
2771	0.000000	2771	14.621432
2772	289.000000	2772	0.000000
2773	0.000000	2773	15.063314
2774	40.000000	2774	0.000000
2775	0.000000	2775	9.192599
2776	34.000000	2776	0.000000
2777	0.000000	2777	3.755102
2778	24.000000	2778	0.000000
2779	0.000000	2779	3.755102
2780	1.000000	2780	0.000000
2781	24.000000	2781	0.000000
2782	0.000000	2782	2.593974
2783	1.000000	2783	0.000000
2784	0.000000	2784	2.593974
2785	24.000000	2785	0.000000
2786	3.000000	2786	0.000000
2787	0.000000	2787	10.906095
2788	144.000000	2788	0.000000
2789	0.000000	2789	2.835454
2790	5.000000	2790	0.000000
2791	0.000000	2791	2.835454
2792	29.000000	2792	0.000000
2793	0.000000	2793	20.076700
2794	103.000000	2794	0.000000
2795	0.000000	2795	16.324002
2796	0.000000	2796	6.816611
2797	0.000000	2797	7.235253
2798	58.000000	2798	0.000000
2799	0.000000	2799	10.066828
2800	0.000000	2800	2.853887
2801	0.000000	2801	7.461922
2802	24.000000	2802	0.000000
2803	0.000000	2803	13.199428
2804	11.000000	2804	0.000000
2805	0.000000	2805	7.846887

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Coordenada x	Valor x	Coordenada z	Valor z
2806	0.000000	2806	1.007119
2807	0.000000	2807	14.992309
2808	0.000000	2808	1.792881
2809	0.000000	2809	9.639768
2810	36.000000	2810	0.000000
2811	8.000000	2811	0.000000
2812	0.000000	2812	7.959313
2813	0.000000	2813	6.740261
2814	0.000000	2814	1.447315
2815	0.000000	2815	18.013335
2816	49.000000	2816	0.000000
2817	0.000000	2817	91.215058
2818	0.000000	2818	79.319703
2819	0.000000	2819	12.280261
2820	0.000000	2820	6.447315
2821	0.000000	2821	17.513335
2822	130.000000	2822	0.000000
2823	0.000000	2823	18.515058
2824	0.000000	2824	6.619703
2825	0.000000	2825	1.731093
2826	0.000000	2826	25.591881
2827	20.000000	2827	0.000000
2828	0.000000	2828	67.030546
2829	0.000000	2829	65.008805
2830	0.000000	2830	67.154636
2831	0.000000	2831	14.422288
2832	0.000000	2832	32.783076
2833	0.000000	2833	7.691195
2834	0.000000	2834	2.021740
2835	8.000000	2835	0.000000
2836	0.000000	2836	2.145830
2837	9.000000	2837	0.000000
2838	0.000000	2838	64.240933
2839	0.000000	2839	65.523832
2840	0.000000	2840	64.191246
2841	29.000000	2841	0.000000
2842	0.000000	2842	64.240933
2843	0.000000	2843	65.523832
2844	0.000000	2844	64.191246
2845	0.000000	2845	7.549277
2846	40.000000	2846	0.000000
2847	0.000000	2847	9.549277
2848	18.000000	2848	0.000000
2849	0.000000	2849	5.647686
2850	0.000000	2850	3.667107
2851	27.000000	2851	0.000000
2852	47.000000	2852	0.000000
2853	51.000000	2853	0.000000
2854	29.000000	2854	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
2855	0.000000	2855	11.628760
2856	0.000000	2856	0.872365
2857	31.000000	2857	0.000000
2858	0.000000	2858	0.622878
2859	14.000000	2859	0.000000
2860	0.000000	2860	2.215176
2861	214.000000	2861	0.000000
2862	0.000000	2862	5.802325
2863	0.000000	2863	2.215176
2864	6.000000	2864	0.000000
2865	0.000000	2865	5.802325
2866	0.000000	2866	2.215176
2867	10.000000	2867	0.000000
2868	0.000000	2868	5.802325
2869	0.000000	2869	2.215176
2870	22.000000	2870	0.000000
2871	0.000000	2871	4.402325
2872	0.000000	2872	2.215176
2873	7.017920	2873	0.000000
2874	910.982080	2874	0.000000
2875	0.000000	2875	5.802325
2876	0.000000	2876	2.008767
2877	39.000000	2877	0.000000
2878	0.000000	2878	2.680893
2879	0.000000	2879	2.008767
2880	3.000000	2880	0.000000
2881	0.000000	2881	10.582867
2882	0.000000	2882	2.008767
2883	22.000000	2883	0.000000
2884	0.000000	2884	10.582867
2885	0.000000	2885	1.787161
2886	15.000000	2886	0.000000
2887	0.000000	2887	1.787161
2888	20.000000	2888	0.000000
2889	0.000000	2889	1.787161
2890	25.000000	2890	0.000000
2891	0.000000	2891	1.787161
2892	35.000000	2892	0.000000
2893	0.000000	2893	1.787161
2894	27.000000	2894	0.000000
2895	0.000000	2895	3.060384
2896	40.000000	2896	0.000000
2897	0.000000	2897	3.060384
2898	33.000000	2898	0.000000
2899	0.000000	2899	3.060384
2900	63.000000	2900	0.000000
2901	0.000000	2901	3.060384
2902	38.000000	2902	0.000000
2903	0.000000	2903	3.060384

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Coordenada x	Valor x	Coordenada z	Valor z
2904	8.000000	2904	0.000000
2905	0.000000	2905	-0.000000
2906	26.000000	2906	0.000000
2907	0.000000	2907	36.492168
2908	0.000000	2908	-0.000000
2909	120.000000	2909	0.000000
2910	0.000000	2910	7.092168
2911	88.941444	2911	0.000000
2912	15.058556	2912	0.000000
2913	0.000000	2913	7.092168
2914	0.000000	2914	-0.000000
2915	63.000000	2915	0.000000
2916	0.000000	2916	7.092168
2917	0.000000	2917	-0.000000
2918	51.000000	2918	0.000000
2919	0.000000	2919	7.092168
2920	0.000000	2920	-0.000000
2921	77.000000	2921	0.000000
2922	0.000000	2922	7.092168
2923	0.000000	2923	-0.000000
2924	35.000000	2924	0.000000
2925	0.000000	2925	7.092168
2926	0.000000	2926	-0.000000
2927	2.000000	2927	0.000000
2928	0.000000	2928	7.092168
2929	0.000000	2929	-0.000000
2930	179.000000	2930	0.000000
2931	0.000000	2931	3.492168
2932	0.000000	2932	-0.000000
2933	66.000000	2933	0.000000
2934	0.000000	2934	3.492168
2935	0.000000	2935	-0.000000
2936	60.000000	2936	0.000000
2937	0.000000	2937	3.492168
2938	0.000000	2938	-0.000000
2939	5.000000	2939	0.000000
2940	0.000000	2940	3.492168
2941	255.000000	2941	0.000000
2942	0.000000	2942	0.000000
2943	0.000000	2943	3.492168
2944	67.000000	2944	0.000000
2945	0.000000	2945	0.000000
2946	0.000000	2946	16.892168
2947	0.000000	2947	-0.000000
2948	45.000000	2948	0.000000
2949	0.000000	2949	37.692168
2950	0.000000	2950	-0.000000
2951	46.000000	2951	0.000000
2952	0.000000	2952	39.392168

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Coordenada x	Valor x	Coordenada z	Valor z
2953	0.000000	2953	-0.000000
2954	92.000000	2954	0.000000
2955	0.000000	2955	34.192168
2956	0.000000	2956	-0.000000
2957	173.000000	2957	0.000000
2958	0.000000	2958	34.492168
2959	154.000000	2959	0.000000
2960	0.000000	2960	0.000000
2961	0.000000	2961	27.192168
2962	55.000000	2962	0.000000
2963	0.000000	2963	0.000000
2964	0.000000	2964	26.992168
2965	53.000000	2965	0.000000
2966	0.000000	2966	0.000000
2967	0.000000	2967	24.792168
2968	0.000000	2968	-0.000000
2969	91.000000	2969	0.000000
2970	0.000000	2970	36.392168
2971	73.000000	2971	0.000000
2972	0.000000	2972	0.000000
2973	0.000000	2973	32.392168
2974	0.000000	2974	-0.000000
2975	59.000000	2975	0.000000
2976	0.000000	2976	21.892168
2977	0.000000	2977	-0.000000
2978	65.000000	2978	0.000000
2979	0.000000	2979	21.892168
2980	84.000000	2980	0.000000
2981	0.000000	2981	0.000000
2982	0.000000	2982	21.892168
2983	0.000000	2983	-0.000000
2984	48.000000	2984	0.000000
2985	0.000000	2985	27.692168
2986	0.000000	2986	-0.000000
2987	52.000000	2987	0.000000
2988	0.000000	2988	27.692168
2989	0.000000	2989	-0.000000
2990	43.000000	2990	0.000000
2991	0.000000	2991	23.092168
2992	0.000000	2992	-0.000000
2993	153.000000	2993	0.000000
2994	0.000000	2994	23.092168
2995	210.000000	2995	0.000000
2996	0.000000	2996	0.000000
2997	0.000000	2997	35.092168
2998	0.000000	2998	-0.000000
2999	97.000000	2999	0.000000
3000	0.000000	3000	34.292168
3001	401.000000	3001	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
3002	0.000000	3002	0.000000
3003	0.000000	3003	32.092168
3004	0.000000	3004	-0.000000
3005	53.000000	3005	0.000000
3006	0.000000	3006	31.992168
3007	121.000000	3007	0.000000
3008	0.000000	3008	0.000000
3009	0.000000	3009	31.292168
3010	0.000000	3010	-0.000000
3011	49.000000	3011	0.000000
3012	0.000000	3012	29.392168
3013	0.000000	3013	9.207832
3014	0.000000	3014	9.207832
3015	1224.000000	3015	0.000000
3016	0.000000	3016	9.207832
3017	0.000000	3017	9.207832
3018	1467.000000	3018	0.000000
3019	65.000000	3019	0.000000
3020	0.000000	3020	0.000000
3021	0.000000	3021	31.492168
3022	0.000000	3022	-0.000000
3023	22.000000	3023	0.000000
3024	0.000000	3024	32.692168
3025	0.000000	3025	-0.000000
3026	91.000000	3026	0.000000
3027	0.000000	3027	32.692168
3028	0.000000	3028	-0.000000
3029	20.000000	3029	0.000000
3030	0.000000	3030	30.992168
3031	52.000000	3031	0.000000
3032	0.000000	3032	0.000000
3033	0.000000	3033	30.992168
3034	0.000000	3034	-0.000000
3035	70.000000	3035	0.000000
3036	0.000000	3036	6.892168
3037	0.000000	3037	-0.000000
3038	110.000000	3038	0.000000
3039	0.000000	3039	26.592168
3040	154.000000	3040	0.000000
3041	0.000000	3041	0.000000
3042	0.000000	3042	0.192168
3043	0.000000	3043	-0.000000
3044	268.000000	3044	0.000000
3045	0.000000	3045	0.192168
3046	0.000000	3046	18.807832
3047	0.000000	3047	18.807832
3048	311.000000	3048	0.000000
3049	0.000000	3049	18.807832
3050	0.000000	3050	18.807832

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Coordenada x	Valor x	Coordenada z	Valor z
3051	268.000000	3051	0.000000
3052	143.000000	3052	0.000000
3053	0.000000	3053	35.892168
3054	0.000000	3054	-0.000000
3055	129.000000	3055	0.000000
3056	0.000000	3056	11.202168
3057	0.000000	3057	-0.000000
3058	153.000000	3058	0.000000
3059	0.000000	3059	15.692168
3060	0.000000	3060	-0.000000
3061	105.000000	3061	0.000000
3062	0.000000	3062	15.142168
3063	29.000000	3063	0.000000
3064	0.000000	3064	35.811008
3065	26.000000	3065	0.000000
3066	0.000000	3066	37.511008
3067	72.000000	3067	0.000000
3068	0.000000	3068	32.311008
3069	26.000000	3069	0.000000
3070	0.000000	3070	32.611008
3071	76.000000	3071	0.000000
3072	0.000000	3072	25.311008
3073	26.000000	3073	0.000000
3074	0.000000	3074	25.111008
3075	25.000000	3075	0.000000
3076	0.000000	3076	20.011008
3077	25.000000	3077	0.000000
3078	0.000000	3078	21.211008
3079	84.000000	3079	0.000000
3080	0.000000	3080	29.411008
3081	1.000000	3081	0.000000
3082	0.000000	3082	11.827876
3083	2.000000	3083	0.000000
3084	0.000000	3084	8.227876
3085	16.000000	3085	0.000000
3086	0.000000	3086	8.227876
3087	2.000000	3087	0.000000
3088	0.000000	3088	21.627876
3089	3.000000	3089	0.000000
3090	0.000000	3090	31.927876
3091	4.000000	3091	0.000000
3092	0.000000	3092	29.727876
3093	0.000000	3093	4.472124
3094	308.000000	3094	0.000000
3095	0.000000	3095	3.972124
3096	34.000000	3096	0.000000
3097	3.000000	3097	0.000000
3098	6.000000	3098	0.000000
3099	15.000000	3099	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
3100	0.000000	3100	15.937876
3101	56.033600	3101	0.000000
3102	4.966400	3102	0.000000
3103	1.000000	3103	0.000000
3104	0.000000	3104	15.937876
3105	54.000000	3105	0.000000
3106	0.000000	3106	46.537876
3107	29.000000	3107	0.000000
3108	0.000000	3108	48.237876
3109	60.000000	3109	0.000000
3110	0.000000	3110	36.037886
3111	29.000000	3111	0.000000
3112	0.000000	3112	35.837876
3113	3.000000	3113	0.000000
3114	0.000000	3114	33.837876
3115	29.000000	3115	0.000000
3116	0.000000	3116	45.237886
3117	19.000000	3117	0.000000
3118	0.000000	3118	30.737876
3119	37.000000	3119	0.000000
3120	0.000000	3120	31.937876
3121	34.000000	3121	0.000000
3122	0.000000	3122	40.037876
3123	0.000000	3123	0.362124
3124	38.000000	3124	0.000000
3125	28.000000	3125	0.000000
3126	0.000000	3126	39.837886
3127	4.000000	3127	0.000000
3128	0.000000	3128	15.737876
3129	0.000000	3129	0.362124
3130	29.000000	3130	0.000000
3131	47.000000	3131	0.000000
3132	3.000000	3132	0.000000
3133	23.000000	3133	0.000000
3134	0.000000	3134	24.537876
3135	1.000000	3135	0.000000
3136	0.000000	3136	11.847876
3137	1.000000	3137	0.000000
3138	0.000000	3138	8.147876
3139	5.000000	3139	0.000000
3140	0.000000	3140	8.147876
3141	7.000000	3141	0.000000
3142	0.000000	3142	8.147876
3143	2.000000	3143	0.000000
3144	0.000000	3144	21.647876
3145	4.000000	3145	0.000000
3146	0.000000	3146	31.947876
3147	3.000000	3147	0.000000
3148	0.000000	3148	29.747876

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Coordenada x	Valor x	Coordenada z	Valor z
3149	0.000000	3149	4.452124
3150	309.000000	3150	0.000000
3151	0.000000	3151	4.452124
3152	58.000000	3152	0.000000
3153	2.000000	3153	0.000000
3154	6.000000	3154	0.000000
3155	15.000000	3155	0.000000
3156	0.000000	3156	20.447876
3157	4.000000	3157	0.000000
3158	0.000000	3158	20.447876
3159	10.000000	3159	0.000000
3160	0.000000	3160	6.277876
3161	3.000000	3161	0.000000
3162	0.000000	3162	29.977876
3163	3.000000	3163	0.000000
3164	0.000000	3164	27.577876
3165	0.000000	3165	6.422124
3166	357.000000	3166	0.000000
3167	1.000000	3167	0.000000
3168	0.000000	3168	33.877876
3169	0.000000	3169	16.022124
3170	30.000000	3170	0.000000
3171	15.000000	3171	0.000000
3172	0.000000	3172	18.477876
3173	46.000000	3173	0.000000
3174	26.000000	3174	0.000000
3175	3.000000	3175	0.000000
3176	8.000000	3176	0.000000
3177	20.000000	3177	0.000000
3178	5.000000	3178	0.000000
3179	24.000000	3179	0.000000
3180	8.000000	3180	0.000000
3181	33.000000	3181	0.000000
3182	17.000000	3182	0.000000
3183	22.000000	3183	0.000000
3184	18.000000	3184	0.000000
3185	0.000000	3185	7.313085
3186	24.000000	3186	0.000000
3187	0.000000	3187	3.701442
3188	0.000000	3188	5.299987
3189	21.021130	3189	0.000000
3190	22.978870	3190	0.000000
3191	16.000000	3191	0.000000
3192	0.000000	3192	5.033253
3193	0.000000	3193	9.539987
3194	32.000000	3194	0.000000
3195	0.000000	3195	6.256817
3196	0.000000	3196	1.519531
3197	0.000000	3197	1.280469

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Coordenada x	Valor x	Coordenada z	Valor z
3198	0.000000	3198	7.537286
3199	208.000000	3199	0.000000
3200	15.000000	3200	0.000000
3201	0.000000	3201	0.269859
3202	121.000000	3202	0.000000
3203	27.000000	3203	0.000000
3204	0.000000	3204	6.472370
3205	0.000000	3205	7.044727
3206	51.000000	3206	0.000000
3207	0.000000	3207	5.688557
3208	25.000000	3208	0.000000
3209	0.000000	3209	2.623069
3210	95.000000	3210	0.000000
3211	0.000000	3211	1.809153
3212	0.000000	3212	1.068393
3213	83.000000	3213	0.000000
3214	0.000000	3214	3.160707
3215	34.000000	3215	0.000000
3216	0.000000	3216	0.537031
3217	0.000000	3217	3.160707
3218	10.000000	3218	0.000000
3219	0.000000	3219	0.537031
3220	0.040601	3220	0.000000
3221	42.959399	3221	0.000000
3222	0.000000	3222	0.963700
3223	0.000000	3223	0.000000
3224	10.000000	3224	0.000000
3225	0.000000	3225	0.963700
3226	0.000000	3226	1.074011
3227	6.000000	3227	0.000000
3228	0.000000	3228	1.074011
3229	27.000000	3229	0.000000
3230	0.000000	3230	1.074011
3231	4.000000	3231	0.000000
3232	0.000000	3232	1.074011
3233	44.000000	3233	0.000000
3234	0.000000	3234	1.074011
3235	4.000000	3235	0.000000
3236	31.000000	3236	0.000000
3237	0.000000	3237	0.105175
3238	17.000000	3238	0.000000
3239	0.000000	3239	2.563658
3240	27.000000	3240	0.000000
3241	0.000000	3241	0.872365
3242	11.000000	3242	0.000000
3243	0.000000	3243	0.872365
3244	17.000000	3244	0.000000
3245	0.000000	3245	0.872365
3246	25.000000	3246	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
3247	0.000000	3247	0.872365
3248	20.000000	3248	0.000000
3249	111.000000	3249	0.000000
3250	204.000000	3250	0.000000
3251	81.000000	3251	0.000000
3252	202.000000	3252	0.000000
3253	36.000000	3253	0.000000
3254	53.000000	3254	0.000000
3255	2.000000	3255	0.000000
3256	11.000000	3256	0.000000
3257	9.000000	3257	0.000000
3258	108.000000	3258	0.000000
3259	7.000000	3259	0.000000
3260	8.000000	3260	0.000000
3261	278.000000	3261	0.000000
3262	53.000000	3262	0.000000
3263	33.000000	3263	0.000000
3264	40.000000	3264	0.000000
3265	2.000000	3265	0.000000
3266	21.000000	3266	0.000000
3267	15.000000	3267	0.000000
3268	16.000000	3268	0.000000
3269	13.000000	3269	0.000000
3270	1.000000	3270	0.000000
3271	2.000000	3271	0.000000
3272	8.000000	3272	0.000000
3273	21.000000	3273	0.000000
3274	5.000000	3274	0.000000
3275	29.000000	3275	0.000000
3276	6.000000	3276	0.000000
3277	89.000000	3277	0.000000
3278	0.000000	3278	11.077400
3279	21.000000	3279	0.000000
3280	0.000000	3280	0.177400
3281	234.000000	3281	0.000000
3282	0.000000	3282	5.277400
3283	8.000000	3283	0.000000
3284	51.000000	3284	0.000000
3285	13.000000	3285	0.000000
3286	0.000000	3286	2.241663
3287	38.000000	3287	0.000000
3288	30.000000	3288	0.000000
3289	53.000000	3289	0.000000
3290	0.000000	3290	3.382139
3291	2.000000	3291	0.000000
3292	0.000000	3292	3.382139
3293	26.000000	3293	0.000000
3294	0.000000	3294	6.460316
3295	10.000000	3295	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
3296	0.000000	3296	6.460316
3297	37.000000	3297	0.000000
3298	0.000000	3298	0.000000
3299	155.953596	3299	0.000000
3300	0.046404	3300	0.000000
3301	154.000000	3301	0.000000
3302	0.000000	3302	5.656898
3303	1.000000	3303	0.000000
3304	0.000000	3304	5.656898
3305	20.000000	3305	0.000000
3306	0.000000	3306	124.992480
3307	0.000000	3307	127.363893
3308	0.000000	3308	128.810668
3309	0.000000	3309	130.452676
3310	0.000000	3310	173.360143
3311	0.000000	3311	124.973362
3312	0.000000	3312	143.992490
3313	0.000000	3313	146.363903
3314	0.000000	3314	147.810678
3315	0.000000	3315	149.452686
3316	0.000000	3316	154.760153
3317	0.000000	3317	143.973372
3318	0.000000	3318	143.624340
3319	0.000000	3319	136.038716
3320	0.000000	3320	139.564282
3321	0.000000	3321	138.873123
3322	0.000000	3322	144.552686
3323	0.000000	3323	137.968657
3324	0.000000	3324	118.880707
3325	0.000000	3325	110.847227
3326	0.000000	3326	123.551546
3327	0.000000	3327	115.749144
3328	0.000000	3328	129.096690
3329	0.000000	3329	110.256787
3330	0.000000	3330	135.780707
3331	0.000000	3331	127.747227
3332	0.000000	3332	124.751546
3333	0.000000	3333	127.849144
3334	0.000000	3334	129.096690
3335	0.000000	3335	111.456787
3336	0.000000	3336	218.312103
3337	0.000000	3337	118.880707
3338	0.000000	3338	110.847227
3339	0.000000	3339	123.551546
3340	0.000000	3340	115.749144
3341	0.000000	3341	129.096690
3342	0.000000	3342	110.256787
3343	0.000000	3343	93.623809
3344	0.000000	3344	86.803441

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Coordenada x	Valor x	Coordenada z	Valor z
3345	0.000000	3345	103.951546
3346	0.000000	3346	91.905746
3347	0.000000	3347	98.451003
3348	0.000000	3348	85.904527
3349	0.000000	3349	85.346559
3350	0.000000	3350	110.523809
3351	0.000000	3351	103.703441
3352	0.000000	3352	105.151546
3353	0.000000	3353	104.005746
3354	0.000000	3354	98.451003
3355	0.000000	3355	87.104527
3356	0.000000	3356	96.846559
3357	0.000000	3357	93.623809
3358	0.000000	3358	86.803441
3359	0.000000	3359	103.951546
3360	0.000000	3360	91.905746
3361	0.000000	3361	98.451003
3362	0.000000	3362	85.904527
3363	0.000000	3363	85.346559
3364	0.000000	3364	91.455232
3365	0.000000	3365	87.253016
3366	0.000000	3366	78.940918
3367	0.000000	3367	85.278450
3368	0.000000	3368	84.437463
3369	0.000000	3369	86.141974
3370	0.000000	3370	82.555232
3371	0.000000	3371	84.907306
3372	0.000000	3372	79.071759
3373	0.000000	3373	77.258688
3374	0.000000	3374	91.455232
3375	0.000000	3375	87.253016
3376	0.000000	3376	78.940918
3377	0.000000	3377	85.278450
3378	0.000000	3378	84.437463
3379	0.000000	3379	86.141974
3380	0.000000	3380	82.555232
3381	0.000000	3381	84.907306
3382	0.000000	3382	79.071759
3383	0.000000	3383	77.258688
3384	0.000000	3384	82.155232
3385	0.000000	3385	103.853016
3386	0.000000	3386	95.540918
3387	0.000000	3387	101.878450
3388	0.000000	3388	96.337463
3389	0.000000	3389	86.141974
3390	0.000000	3390	82.555232
3391	0.000000	3391	84.907306
3392	0.000000	3392	90.771769
3393	0.000000	3393	88.958698

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Coordenada x	Valor x	Coordenada z	Valor z
3394	0.000000	3394	66.639323
3395	0.000000	3395	58.440354
3396	0.000000	3396	57.811090
3397	0.000000	3397	61.864142
3398	0.000000	3398	52.052731
3399	0.000000	3399	55.696565
3400	0.000000	3400	54.350888
3401	0.000000	3401	52.924251
3402	0.000000	3402	66.639323
3403	0.000000	3403	58.440354
3404	0.000000	3404	57.811090
3405	0.000000	3405	61.864142
3406	0.000000	3406	52.052731
3407	0.000000	3407	55.696565
3408	0.000000	3408	54.350888
3409	0.000000	3409	52.924251
3410	0.000000	3410	57.339323
3411	0.000000	3411	75.040354
3412	0.000000	3412	74.411090
3413	0.000000	3413	73.764142
3414	0.000000	3414	52.052731
3415	0.000000	3415	55.696565
3416	0.000000	3416	54.350888
3417	0.000000	3417	64.624251
3418	0.000000	3418	64.858281
3419	0.000000	3419	63.725512
3420	0.000000	3420	57.811090
3421	0.000000	3421	61.584429
3422	0.000000	3422	52.487411
3423	0.000000	3423	52.729213
3424	0.000000	3424	54.871398
3425	0.000000	3425	54.502400
3426	0.000000	3426	64.858281
3427	0.000000	3427	63.725512
3428	0.000000	3428	57.811090
3429	0.000000	3429	61.584429
3430	0.000000	3430	52.487411
3431	0.000000	3431	52.729213
3432	0.000000	3432	54.871398
3433	0.000000	3433	54.502400
3434	0.000000	3434	55.558281
3435	0.000000	3435	80.325512
3436	0.000000	3436	74.411090
3437	0.000000	3437	73.484429
3438	0.000000	3438	52.487411
3439	0.000000	3439	52.729213
3440	0.000000	3440	54.871398
3441	0.000000	3441	66.202400
3442	0.000000	3442	67.526801

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Coordenada x	Valor x	Coordenada z	Valor z
3443	0.000000	3443	57.422691
3444	0.000000	3444	64.026133
3445	0.000000	3445	103.615492
3446	0.000000	3446	108.020049
3447	0.000000	3447	108.845634
3448	0.040601	3448	0.000000
3449	1810.589236	3449	0.000000
3450	3911.478580	3450	0.000000
3451	3064.882820	3451	0.000000
3452	0.046404	3452	0.000000
3453	678.980529	3453	0.000000
3454	4255.092156	3454	0.000000
3455	3048.996790	3455	0.000000
3456	7085.725822	3456	0.000000
3457	3423.835769	3457	0.000000
3458	2341.428554	3458	0.000000
3459	3042.401163	3459	0.000000
3460	0.602410	3460	0.000000
3461	12337.953680	3461	0.000000
3462	0.243902	3462	0.000000
3463	6069.735185	3463	0.000000
3464	4484.966400	3464	0.000000
3465	0.000000	3465	0.000000
3466	0.000000	3466	0.000000
3467	0.000000	3467	30.205795
3468	0.000000	3468	20.399348
3469	0.000000	3469	22.481862
3470	0.000000	3470	10.372693
3471	0.000000	3471	1.807484
3472	0.000000	3472	2.250123
3473	0.000000	3473	3.469065
3474	116.000000	3474	0.000000
3475	0.000000	3475	17.098067
3476	0.000000	3476	13.403857
3477	0.000000	3477	18.445428
3478	0.000000	3478	8.802933
3479	0.000000	3479	1.660980
3480	0.000000	3480	1.966324
3481	186.000000	3481	0.000000
3482	0.000000	3482	0.431756
3483	0.000000	3483	14.206411
3484	0.000000	3484	8.870496
3485	0.000000	3485	5.243454
3486	0.000000	3486	7.511195
3487	0.000000	3487	10.072844
3488	0.000000	3488	1.123537
3489	0.000000	3489	1.776908
3490	0.000000	3490	5.094015
3491	161.264815	3491	0.000000

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Coordenada x	Valor x	Coordenada z	Valor z
3492	118.735185	3492	0.000000
3493	0.000000	3493	12.947844
3494	0.000000	3494	4.891636
3495	0.000000	3495	6.201401
3496	0.000000	3496	1.384170
3497	0.000000	3497	4.125455
3498	0.000000	3498	-0.097095
3499	0.000000	3499	2.210993
3500	93.000000	3500	0.000000
3501	0.000000	3501	0.555744
3502	0.000000	3502	13.112479
3503	0.000000	3503	3.689862
3504	0.000000	3504	2.514431
3505	0.000000	3505	1.321747
3506	0.000000	3506	5.763876
3507	0.000000	3507	1.378116
3508	0.000000	3508	4.495917
3509	0.000000	3509	1.553626
3510	140.000000	3510	0.000000
3511	0.000000	3511	12.127764
3512	29.853689	3512	0.000000
3513	63.146311	3513	0.000000
3514	0.000000	3514	2.166936
3515	0.000000	3515	11.162535
3516	0.000000	3516	1.488131
3517	0.000000	3517	5.207432
3518	0.000000	3518	1.994492
3519	0.000000	3519	1.974034
3520	0.000000	3520	13.112479
3521	0.000000	3521	0.591538
3522	0.000000	3522	2.264275
3523	28.000000	3523	0.000000

### 3 Variáveis Duais (Multiplicadores de Lagrange)

Tabela 2: Variáveis duais do problema Czprob

Coordenada y	Valor y
1	1.000000
2	-1595.049518
3	-1616.256535
4	-2313.465237
5	-2428.298257
6	-1516.506132
7	-680.867758
8	-2294.065109

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Coordenada y	Valor y
9	-2948.701050
10	-3906.488965
11	-5373.395761
12	-3694.209586
13	-3868.367367
14	-19059.799891
15	-4240.576281
16	-5368.772980
17	-3156.297994
18	-6296.616121
19	-0.000000
20	-0.000000
21	-0.000000
22	-0.000000
23	-0.000000
24	-0.000000
25	-0.000000
26	-0.000000
27	-0.000000
28	-0.000000
29	-0.000000
30	-0.000000
31	-0.000000
32	-0.000000
33	-0.000000
34	-0.000000
35	-0.000000
36	-0.000000
37	-0.000000
38	-0.000000
39	-0.000000
40	40.530153
41	-26.226628
42	-4.649847
43	-8.349847
44	3.768667
45	31.110959
46	200.183675
47	169.683675
48	172.883675
49	-32.616325
50	-22.100856
51	171.283675
52	211.583675
53	3.983675
54	3.983675
55	161.404919
56	149.504919
57	149.504919
Continua na próxima página	

Coordenada y	Valor y
58	156.104919
59	-32.995081
60	146.004919
61	146.004919
62	151.104919
63	3.204919
64	175.004919
65	173.904919
66	176.204919
67	161.404919
68	174.904919
69	144.404919
70	-28.221888
71	-28.221888
72	-28.221888
73	141.204919
74	184.374737
75	142.724919
76	142.724919
77	0.874737
78	-2.825263
79	-29.770743
80	-29.770743
81	134.524919
82	131.304919
83	-8.338207
84	-2.853122
85	-6.553122
86	-32.995081
87	162.880478
88	148.980478
89	163.880478
90	-30.379522
91	-30.379522
92	-3.588112
93	164.880478
94	-3.588112
95	-7.288112
96	-7.474176
97	-29.505399
98	-29.505399
99	-33.385399
100	-33.385399
101	178.694601
102	-7.474176
103	-11.174176
104	2.898971
105	154.478971
106	-28.830380

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Coordenada y	Valor y
107	133.778971
108	-7.984418
109	2.878971
110	176.951921
111	-9.118079
112	335.386701
113	24.678127
114	22.978791
115	-37.069369
116	47.801244
117	167.538322
118	174.143372
119	31.036271
120	234.439345
121	218.872161
122	222.272161
123	207.372161
124	141.505698
125	175.796219
126	179.496219
127	184.296219
128	-18.781437
129	-25.288031
130	-26.724508
131	204.592623
132	204.592623
133	-22.064631
134	-130.555718
135	213.041962
136	223.127148
137	6.788608
138	6.788608
139	6.744935
140	-0.000000
141	-0.000000
142	14.449144
143	-0.000000
144	162.069144
145	152.529144
146	141.479144
147	131.268821
148	-21.850856
149	-0.594254
150	-1.594254
151	10.505746
152	10.505746
153	-0.000000
154	152.875746
155	143.305746

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Coordenada y	Valor y
156	126.376559
157	-28.454407
158	-28.454407
159	-28.454407
160	-3.162537
161	-4.341302
162	109.758698
163	182.155232
164	0.555232
165	-3.144768
166	143.328698
167	123.357463
168	123.188698
169	120.653360
170	-29.146640
171	-29.146640
172	-29.146640
173	-5.469663
174	-9.169663
175	-5.469663
176	-30.757365
177	-30.757365
178	-30.757365
179	-5.469663
180	-9.169663
181	-7.933061
182	-8.728556
183	90.971444
184	-7.933061
185	-11.633061
186	-10.347269
187	-33.775749
188	-33.775749
189	-33.775749
190	-10.347269
191	-10.347269
192	-14.047269
193	170.554251
194	-9.912589
195	-9.212589
196	-32.341719
197	-9.912589
198	-13.612589
199	133.710888
200	-8.689112
201	-8.689112
202	-12.389112
203	-5.099923
204	-7.199923

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Coordenada y	Valor y
205	-32.680104
206	-22.173338
207	-8.896452
208	19.901376
209	-44.950535
210	191.269465
211	32.423319
212	60.493034
213	40.581244
214	25.915232
215	24.954737
216	-49.561632
217	225.692233
218	54.892233
219	9.501244
220	9.167017
221	3.849044
222	0.328011
223	10.695369
224	-36.719293
225	178.611517
226	197.928623
227	15.428623
228	138.158551
229	195.167148
230	173.067148
231	201.713809
232	200.713809
233	182.313809
234	215.713809
235	-14.186191
236	216.861921
237	207.415512
238	54.718633
239	184.801969
240	-25.032256
241	-25.032256
242	-28.108783
243	-31.265081
244	-2.736743
245	-2.736743
246	-32.054155
247	8.309917
248	9.578709
249	-15.371291
250	7.018709
251	240.075698
252	220.834780
253	209.185492

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Coordenada y	Valor y
254	209.185492
255	203.448098
256	245.472146
257	12.042146
258	9.442146
259	21.775369
260	-4.366097
261	-5.957587
262	272.412160
263	200.118074
264	254.418074
265	223.847072
266	223.847072
267	237.747082
268	286.311055
269	259.175369
270	20.975369
271	198.358074
272	-33.745925
273	165.554075
274	-59.645925
275	-18.045925
276	165.554075
277	-54.145925
278	202.299917
279	120.200918
280	148.300918
281	-2.599082
282	-2.599082
283	-2.599082
284	-0.000000
285	129.300918
286	-0.000000
287	123.100918
288	-28.499082
289	124.300918
290	-0.000000
291	133.700918
292	133.700918
293	128.600918
294	-0.000000
295	-19.699082
296	134.300918
297	123.900918
298	-22.999082
299	128.300918
300	128.300918
301	149.259666
302	-0.640334

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Coordenada y	Valor y
303	-2.840334
304	138.880918
305	124.480918
306	119.290918
307	108.527959
308	136.427959
309	136.427959
310	137.427959
311	-4.772041
312	-4.772041
313	-4.772041
314	-0.000000
315	117.627959
316	-0.000000
317	111.427959
318	-30.272041
319	-30.272041
320	112.627959
321	-0.000000
322	112.227959
323	117.627959
324	116.627959
325	-0.000000
326	135.627959
327	137.827959
328	-4.572041
329	-8.272041
330	131.527959
331	107.383004
332	136.271700
333	136.271700
334	-4.928300
335	-4.928300
336	-0.000000
337	116.483004
338	-31.416996
339	111.483004
340	112.071700
341	115.483004
342	134.483004
343	-5.516996
344	-7.716996
345	137.170337
346	137.170337
347	-5.229663
348	134.991873
349	135.909906
350	137.170337
351	137.170337

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Coordenada y	Valor y
352	-5.229663
353	146.500337
354	138.612062
355	-12.387938
356	-18.670156
357	132.329844
358	131.329844
359	-18.570156
360	-20.770156
361	-15.564508
362	-44.894214
363	131.905786
364	-45.824535
365	-21.493548
366	-23.693548
367	-0.000000
368	117.627959
369	-0.000000
370	120.927959
371	-0.000000
372	-0.000000
373	96.768164
374	-0.000000
375	-0.000000
376	116.827959
377	-0.000000
378	117.627959
379	-0.000000
380	-0.000000
381	-0.000000
382	112.683004
383	136.683004
384	-31.528881
385	139.504046
386	-29.817938
387	-29.817938
388	13.168164
389	157.392161
390	-6.327839
391	-50.763786
392	159.805698
393	159.805698
394	5.705698
395	177.405698
396	-20.264302
397	180.805698
398	179.005698
399	172.705698
400	16.405698
Continua na próxima página	

Coordenada y	Valor y
401	161.092696
402	161.092696
403	6.992696
404	-18.907304
405	17.692696
406	161.092696
407	161.092696
408	179.822696
409	168.067017
410	168.067017
411	168.067017
412	166.005698
413	166.005698
414	167.095698
415	167.095698
416	5.575698
417	5.575698
418	-21.994302
419	128.005698
420	134.805698
421	156.605698
422	166.896219
423	166.896219
424	165.596219
425	168.067017
426	6.547017
427	159.557017
428	151.862072
429	151.862072
430	-4.003781
431	6.027213
432	6.027213
433	254.962623
434	204.737082
435	205.837082
436	215.610959
437	6.310959
438	2.610959
439	194.487082
440	-29.412918
441	0.205755
442	-3.494245
443	-2.892212
444	209.791531
445	-31.277884
446	188.207082
447	211.711531
448	-0.267884
449	6.662623
Continua na próxima página	

Coordenada y	Valor y
450	215.082623
451	7.082623
452	213.797944
453	235.297017
454	235.297017
455	236.316902
456	-18.383098
457	246.416892
458	225.217017
459	238.217017
460	17.017017
461	237.485392
462	237.485392
463	247.685392
464	-17.214608
465	251.085392
466	249.285382
467	236.385392
468	225.745392
469	7.945392
470	238.645392
471	23.645392
472	152.275879
473	134.769511
474	-1.630489
475	-2.906926
476	132.620153
477	-3.779847
478	-3.779847
479	-3.779847
480	128.806341
481	2.306341
482	125.806341
483	126.749501
484	3.849501
485	-1.750499
486	3.849501
487	-0.050499
488	-1.114413
489	3.886341
490	3.886341
491	-1.713659
492	-0.013659
493	127.888891
494	4.988891
495	-0.611109
496	1.088891
497	-27.291719
498	-28.091719

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Coordenada y	Valor y
499	-20.791719
500	-16.491719
501	-18.491719
502	-14.791719
503	-25.191719
504	-25.191719
505	-18.391719
506	-29.130355
507	-29.130355
508	-29.830355
509	-18.230355
510	-18.230355
511	-20.230355
512	-20.230355
513	-16.530355
514	-16.530355
515	-26.930355
516	-24.530355
517	-16.730355
518	-15.330355
519	-15.330355
520	-15.330355
521	-15.330355
522	-15.330355
523	-27.730355
524	128.806341
525	125.049501
526	122.088891
527	124.888891
528	-15.953659
529	111.788747
530	-10.311253
531	-15.911253
532	-14.211253
533	162.544744
534	8.544744
535	2.944744
536	143.449258
537	146.349268
538	146.249268
539	-1.203659
540	-3.203659
541	-1.603659
542	4.776108
543	0.876108
544	10.415054
545	-1.097104
546	9.059917
547	302.884852

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Coordenada y	Valor y
548	201.552686
549	202.752686
550	222.912160
551	213.712160
552	227.312160
553	224.112160
554	-5.487840
555	228.812160
556	-5.487840
557	228.576264
558	-5.723736
559	-5.989119
560	-29.392047
561	-39.092047
562	226.103193
563	232.703193
564	232.613193
565	232.703193
566	-6.696807
567	-23.692047
568	-6.696807
569	246.568429
570	-4.231571
571	-11.671571
572	252.455492
573	252.455492
574	236.255492
575	2.855492
576	249.147237
577	249.147237
578	250.347237
579	232.947237
580	-0.452763
581	248.938429
582	250.138429
583	-0.661571
584	230.165492
585	231.365492
586	227.111718
587	228.311718
588	-12.588282
589	226.857237
590	226.857237
591	226.857237
592	228.057237
593	-12.842763
594	226.718429
595	226.718429
596	-3.626041

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Coordenada y	Valor y
597	208.118429
598	-12.981571
599	227.204257
600	207.404257
601	228.404257
602	228.404257
603	-12.495743
604	-17.495743
605	207.887082
606	-13.212918
607	177.825492
608	176.483682
609	174.517237
610	174.378429
611	174.864257
612	257.455492
613	258.655492
614	7.855492
615	256.113682
616	239.913682
617	255.347237
618	1.947237
619	185.525492
620	182.471718
621	207.671718
622	-11.328282
623	180.817237
624	-3.535235
625	6.464765
626	213.080611
627	-6.719389
628	214.595634
629	-5.204366
630	208.818429
631	187.287148
632	-9.712852
633	182.232623
634	183.932623
635	235.275492
636	-6.624508
637	244.067862
638	244.067862
639	244.067862
640	244.067862
641	246.268738
642	244.067862
643	244.067862
644	244.067862
645	245.267862

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Coordenada y	Valor y
646	257.967862
647	5.134877
648	172.994310
649	4.194310
650	3.620794
651	1.234966
652	5.940794
653	3.620794
654	14.748145
655	-8.213199
656	-7.013199
657	3.286801
658	2.844919
659	8.715634
660	-23.027854
661	-8.527854
662	-15.955074
663	-13.355074
664	-20.455925
665	-17.855925
666	266.302127
667	-21.661380
668	-19.061380
669	8.326559
670	9.826893
671	6.386528
672	219.501564
673	4.208683
674	30.764722
675	-21.243013
676	15.356987
677	-29.807289
678	-0.898483
679	-29.435705
680	-29.435705
681	215.183170
682	14.283170
683	184.767826
684	29.072046
685	191.302447
686	-47.160443
687	12.912400
688	215.144985
689	217.652686
690	218.852686
691	218.852686
692	225.352686
693	4.752686
694	174.059095

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Coordenada y	Valor y
695	219.059095
696	219.059095
697	221.374985
698	221.374985
699	222.574985
700	222.574985
701	8.474985
702	225.214985
703	224.114985
704	226.414985
705	226.414985
706	226.414985
707	172.522691
708	190.822691
709	190.822691
710	190.822691
711	190.822691
712	190.822691
713	190.822691
714	190.822691
715	194.422691
716	194.422691
717	194.422691
718	194.422691
719	194.422691
720	188.222691
721	169.022691
722	169.022691
723	171.922691
724	176.222691
725	180.522691
726	174.422691
727	196.722691
728	180.522691
729	169.822691
730	183.422691
731	183.422691
732	183.422691
733	182.222691
734	182.222691
735	183.422691
736	183.422691
737	169.822691
738	169.822691
739	167.722691
740	176.422691
741	176.422691
742	180.522691
743	-8.485141
Continua na próxima página	



Coordenada y	Valor y
744	-8.485141
745	174.222691
746	180.522691
747	180.522691
748	180.522691
749	180.522691
750	191.022691
751	180.522691
752	196.022691
753	196.022691
754	-18.085141
755	-18.085141
756	169.822691
757	173.782691
758	181.202691
759	200.422691
760	182.793851
761	182.793851
762	185.693851
763	190.093851
764	194.293851
765	188.293851
766	197.193851
767	197.193851
768	203.593851
769	195.883851
770	199.483851
771	199.483851
772	206.683851
773	198.883851
774	188.483851
775	-8.588273
776	-8.088273
777	184.483851
778	208.883851
779	178.873851
780	-8.466149
781	191.173851
782	169.373851
783	169.373851
784	180.873841
785	174.773851
786	183.773851
787	180.873841
788	183.773851
789	183.773851
790	190.173851
791	-9.188273
792	180.873841
Continua na próxima página	

Coordenada y	Valor y
793	204.673851
794	-9.188273
795	214.911727
796	204.413851
797	171.163851
798	196.893851
799	213.993851
800	213.993851
801	213.993851
802	207.693851
803	199.993851
804	189.493851
805	-12.458273
806	-12.458273
807	180.593851
808	205.333851
809	176.953851
810	173.013851
811	185.533851
812	184.933851
813	187.833851
814	-24.488273
815	184.933851
816	-34.088273
817	164.923851
818	6.160147
819	4.164310
820	200.417188
821	6.917188
822	196.540218
823	181.840218
824	196.540218
825	183.840218
826	3.040218
827	-8.310214
828	-10.230261
829	-14.914631
830	233.790989
831	20.540335
832	-18.294353
833	242.366375
834	2.785906
835	15.901637
836	2.745634
837	227.905492
838	-2.836233
839	-3.562181
840	213.442158
841	18.097264
Continua na próxima página	

Coordenada y	Valor y
842	3.495369
843	17.795369
844	14.516070
845	27.616070
846	13.367744
847	-3.732256
848	26.467744
849	29.067744
850	29.067744
851	219.292468
852	-41.841100
853	262.504896
854	255.802400
855	-2.997600
856	11.302400
857	13.902400
858	22.050707
859	200.023809
860	13.661357
861	8.395746
862	343.913087
863	4.013087
864	4.013087
865	-14.370231
866	1.329769
867	321.944090
868	298.244090
869	302.644090
870	299.444090
871	13.944100
872	291.169805
873	0.969815
874	224.268563
875	225.468563
876	-4.131437
877	-4.131437
878	24.589736
879	330.151321
880	324.751321
881	16.451321
882	16.451321
883	291.056491
884	9.256491
885	-7.643509
886	2.659789
887	154.046755
888	11.246755
889	6.146755
890	135.537673
Continua na próxima página	

Coordenada y	Valor y
891	145.737673
892	136.979257
893	138.789933
894	218.373809
895	18.173809
896	238.830707
897	268.530707
898	293.620697
899	19.220707
900	243.463799
901	13.563809
902	288.085152
903	-0.000000
904	-0.000000
905	-0.000000
906	-0.000000
907	-0.000000
908	-0.000000
909	-0.000000
910	-0.000000
911	-0.000000
912	-0.000000
913	-0.000000
914	-0.000000
915	-0.000000
916	-0.000000
917	-0.000000
918	-0.000000
919	-0.000000
920	-0.000000
921	-0.000000
922	-0.000000
923	208.475689
924	184.788551
925	177.164009
926	160.330116
927	158.045192
928	152.433677
929	153.145192

## 4 Observações

- O solver HiGHS foi configurado com o método IPM (Interior Point Method).
- Este arquivo contém a solução detalhada para o problema Czprob.
- As variáveis duais representam os multiplicadores de Lagrange das restrições.
- Os custos reduzidos (z) indicam o impacto de forçar variáveis não-básicas na base.