

```
C:\Users\Usuário\.jdks\openjdk-21.0.1\bin\java.exe "-javaagent:C:\Users\Usuário\AppData\Local\Programs\IntelliJ IDEA Ultimate 2024.2.4\lib\idea_rt.jar=49819" -Dfile.encoding=UTF-8 -Dsun.stdout.encoding=UTF-8 -Dsun.stderr.encoding=UTF-8 -classpath C:\Users\Usuário\Desktop\HashTable\out\production\TabelaHashHashTableProgram
```

Relatório: FNV-1a Página 1 até 101

Número total de colisões: 2090

Tempo total de inserção: 4,989 ms

Tempo total de busca: 1,541 ms

Como deseja visualizar a tabela?

- 1 - Resumo paginado (apenas totais por faixa)
- 2 - Paginado detalhado (com detalhes de cada posição)
- 3 - Tudo de uma vez

Escolha (1, 2 ou 3): 3

== TABELA DE HASH - VISUALIZAÇÃO COMPLETA ==

Posição	Chaves	Colisões
0	1	0
1	3	2
2	2	1
3	1	0
4	1	0
5	2	1
6	0	0
7	1	0
8	2	1
9	0	0
10	0	0
11	2	1
12	1	0
13	1	0
14	0	0
15	2	1
16	0	0
17	3	2
18	2	1
19	1	0

20	0	0
21	1	0
22	0	0
23	1	0
24	1	0
25	1	0
26	1	0
27	2	1
28	2	1
29	1	0
30	1	0
31	5	4
32	0	0
33	0	0
34	2	1
35	1	0
36	1	0
37	1	0
38	0	0
39	2	1
40	1	0
41	2	1
42	0	0
43	1	0
44	2	1
45	2	1
46	1	0
47	2	1
48	0	0
49	3	2
50	0	0
51	5	4
52	2	1
53	0	0
54	1	0
55	2	1
56	2	1
57	2	1
58	0	0
59	0	0
60	2	1

61		0		0
62		1		0
63		3		2
64		0		0
65		3		2
66		0		0
67		2		1
68		0		0
69		3		2
70		0		0
71		0		0
72		1		0
73		4		3
74		2		1
75		2		1
76		1		0
77		1		0
78		0		0
79		0		0
80		0		0
81		1		0
82		1		0
83		3		2
84		1		0
85		0		0
86		2		1
87		2		1
88		4		3
89		1		0
90		2		1
91		3		2
92		1		0
93		2		1
94		0		0
95		0		0
96		2		1
97		2		1
98		0		0
99		1		0
100		3		2
101		1		0

102	1	0
103	1	0
104	1	0
105	2	1
106	1	0
107	1	0
108	1	0
109	5	4
110	2	1
111	1	0
112	0	0
113	0	0
114	0	0
115	1	0
116	0	0
117	2	1
118	0	0
119	2	1
120	0	0
121	2	1
122	1	0
123	0	0
124	2	1
125	0	0
126	1	0
127	3	2
128	1	0
129	0	0
130	0	0
131	2	1
132	1	0
133	1	0
134	4	3
135	0	0
136	1	0
137	2	1
138	0	0
139	0	0
140	1	0
141	0	0
142	0	0

143		2		1
144		2		1
145		0		0
146		1		0
147		1		0
148		4		3
149		2		1
150		1		0
151		2		1
152		0		0
153		4		3
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155		1		0
156		1		0
157		1		0
158		2		1
159		0		0
160		1		0
161		0		0
162		1		0
163		0		0
164		1		0
165		1		0
166		2		1
167		2		1
168		2		1
169		0		0
170		1		0
171		1		0
172		3		2
173		4		3
174		0		0
175		1		0
176		2		1
177		1		0
178		0		0
179		2		1
180		1		0
181		1		0
182		1		0
183		2		1

184	1	0
185	1	0
186	2	1
187	2	1
188	2	1
189	2	1
190	0	0
191	0	0
192	3	2
193	0	0
194	1	0
195	0	0
196	1	0
197	2	1
198	0	0
199	1	0
200	0	0
201	1	0
202	1	0
203	1	0
204	0	0
205	1	0
206	1	0
207	1	0
208	2	1
209	1	0
210	4	3
211	1	0
212	3	2
213	0	0
214	0	0
215	2	1
216	1	0
217	0	0
218	0	0
219	1	0
220	1	0
221	1	0
222	2	1
223	3	2
224	0	0

225	4	3
226	0	0
227	1	0
228	0	0
229	1	0
230	2	1
231	3	2
232	0	0
233	1	0
234	0	0
235	4	3
236	0	0
237	1	0
238	1	0
239	5	4
240	1	0
241	0	0
242	0	0
243	0	0
244	2	1
245	3	2
246	1	0
247	4	3
248	1	0
249	0	0
250	1	0
251	0	0
252	2	1
253	1	0
254	2	1
255	0	0
256	2	1
257	1	0
258	2	1
259	0	0
260	1	0
261	1	0
262	2	1
263	0	0
264	0	0
265	2	1

266		1		0
267		1		0
268		3		2
269		3		2
270		3		2
271		3		2
272		2		1
273		1		0
274		0		0
275		0		0
276		0		0
277		1		0
278		1		0
279		2		1
280		0		0
281		0		0
282		3		2
283		3		2
284		0		0
285		1		0
286		1		0
287		0		0
288		0		0
289		1		0
290		2		1
291		5		4
292		1		0
293		2		1
294		1		0
295		0		0
296		0		0
297		1		0
298		0		0
299		2		1
300		0		0
301		1		0
302		5		4
303		0		0
304		1		0
305		1		0
306		1		0

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308		1		0
309		2		1
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311		2		1
312		2		1
313		0		0
314		1		0
315		1		0
316		1		0
317		0		0
318		3		2
319		5		4
320		5		4
321		1		0
322		2		1
323		0		0
324		0		0
325		0		0
326		5		4
327		2		1
328		1		0
329		0		0
330		1		0
331		1		0
332		4		3
333		0		0
334		0		0
335		2		1
336		1		0
337		0		0
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339		0		0
340		0		0
341		0		0
342		0		0
343		0		0
344		3		2
345		0		0
346		2		1
347		1		0

348		1		0
349		2		1
350		1		0
351		1		0
352		0		0
353		1		0
354		1		0
355		0		0
356		0		0
357		3		2
358		3		2
359		0		0
360		0		0
361		2		1
362		0		0
363		3		2
364		2		1
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366		1		0
367		1		0
368		2		1
369		1		0
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371		1		0
372		0		0
373		3		2
374		0		0
375		2		1
376		2		1
377		3		2
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380		2		1
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382		2		1
383		2		1
384		1		0
385		1		0
386		2		1
387		1		0
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389	1	0
390	0	0
391	0	0
392	1	0
393	0	0
394	3	2
395	2	1
396	1	0
397	1	0
398	0	0
399	0	0
400	1	0
401	1	0
402	0	0
403	2	1
404	0	0
405	1	0
406	1	0
407	1	0
408	1	0
409	0	0
410	1	0
411	2	1
412	3	2
413	0	0
414	0	0
415	2	1
416	0	0
417	1	0
418	1	0
419	2	1
420	1	0
421	0	0
422	2	1
423	2	1
424	0	0
425	0	0
426	4	3
427	0	0
428	1	0
429	1	0

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433		0		0
434		0		0
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436		0		0
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440		0		0
441		2		1
442		0		0
443		2		1
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445		0		0
446		0		0
447		3		2
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449		1		0
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452		1		0
453		0		0
454		2		1
455		0		0
456		0		0
457		0		0
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460		0		0
461		1		0
462		1		0
463		2		1
464		3		2
465		2		1
466		1		0
467		4		3
468		3		2
469		1		0
470		3		2

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473		3		2
474		2		1
475		0		0
476		1		0
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487		0		0
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491		0		0
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493		0		0
494		0		0
495		2		1
496		0		0
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507		5		4
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510		0		0
511		1		0

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513	0	0
514	1	0
515	4	3
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517	2	1
518	1	0
519	1	0
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523	1	0
524	0	0
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526	1	0
527	1	0
528	2	1
529	0	0
530	2	1
531	1	0
532	0	0
533	0	0
534	3	2
535	2	1
536	1	0
537	0	0
538	4	3
539	2	1
540	0	0
541	2	1
542	2	1
543	0	0
544	2	1
545	1	0
546	1	0
547	1	0
548	1	0
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550	0	0
551	1	0
552	0	0

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555		2		1
556		1		0
557		1		0
558		0		0
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560		0		0
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562		0		0
563		0		0
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565		0		0
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577		1		0
578		1		0
579		2		1
580		3		2
581		2		1
582		0		0
583		3		2
584		3		2
585		0		0
586		3		2
587		2		1
588		1		0
589		0		0
590		1		0
591		1		0
592		0		0
593		4		3

594		1		0
595		0		0
596		1		0
597		1		0
598		3		2
599		1		0
600		3		2
601		2		1
602		2		1
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604		2		1
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608		2		1
609		2		1
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615		1		0
616		1		0
617		1		0
618		2		1
619		0		0
620		1		0
621		0		0
622		1		0
623		1		0
624		0		0
625		1		0
626		1		0
627		2		1
628		3		2
629		0		0
630		0		0
631		0		0
632		0		0
633		1		0
634		2		1

635		2		1
636		2		1
637		2		1
638		1		0
639		0		0
640		1		0
641		1		0
642		0		0
643		2		1
644		2		1
645		1		0
646		2		1
647		1		0
648		4		3
649		2		1
650		4		3
651		2		1
652		1		0
653		0		0
654		1		0
655		0		0
656		2		1
657		0		0
658		3		2
659		4		3
660		1		0
661		1		0
662		2		1
663		0		0
664		2		1
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666		1		0
667		1		0
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672		1		0
673		1		0
674		1		0
675		1		0

676		0		0
677		0		0
678		2		1
679		1		0
680		1		0
681		0		0
682		2		1
683		2		1
684		0		0
685		1		0
686		1		0
687		1		0
688		0		0
689		3		2
690		1		0
691		0		0
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701		0		0
702		0		0
703		1		0
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709		2		1
710		1		0
711		2		1
712		1		0
713		1		0
714		2		1
715		1		0
716		1		0

717		0		0
718		0		0
719		0		0
720		3		2
721		2		1
722		1		0
723		1		0
724		2		1
725		3		2
726		2		1
727		0		0
728		0		0
729		0		0
730		0		0
731		2		1
732		0		0
733		2		1
734		1		0
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737		1		0
738		2		1
739		0		0
740		0		0
741		1		0
742		1		0
743		3		2
744		4		3
745		2		1
746		1		0
747		4		3
748		1		0
749		0		0
750		3		2
751		2		1
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754		0		0
755		0		0
756		2		1
757		1		0

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759		0		0
760		3		2
761		1		0
762		2		1
763		2		1
764		0		0
765		1		0
766		0		0
767		1		0
768		0		0
769		0		0
770		1		0
771		5		4
772		4		3
773		2		1
774		0		0
775		2		1
776		1		0
777		0		0
778		0		0
779		2		1
780		1		0
781		0		0
782		1		0
783		2		1
784		0		0
785		1		0
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787		1		0
788		1		0
789		1		0
790		0		0
791		1		0
792		0		0
793		2		1
794		2		1
795		2		1
796		2		1
797		2		1
798		3		2

799		1		0
800		0		0
801		2		1
802		1		0
803		2		1
804		4		3
805		1		0
806		1		0
807		2		1
808		0		0
809		3		2
810		2		1
811		0		0
812		1		0
813		0		0
814		3		2
815		2		1
816		2		1
817		1		0
818		4		3
819		2		1
820		2		1
821		0		0
822		0		0
823		1		0
824		1		0
825		1		0
826		0		0
827		1		0
828		2		1
829		0		0
830		0		0
831		1		0
832		1		0
833		0		0
834		1		0
835		3		2
836		1		0
837		1		0
838		1		0
839		0		0

840		2		1
841		1		0
842		0		0
843		0		0
844		2		1
845		1		0
846		2		1
847		1		0
848		0		0
849		0		0
850		1		0
851		3		2
852		1		0
853		1		0
854		0		0
855		1		0
856		2		1
857		1		0
858		3		2
859		1		0
860		1		0
861		0		0
862		4		3
863		0		0
864		3		2
865		0		0
866		1		0
867		1		0
868		1		0
869		3		2
870		0		0
871		2		1
872		1		0
873		1		0
874		2		1
875		0		0
876		1		0
877		1		0
878		0		0
879		2		1
880		3		2

881		1		0
882		1		0
883		3		2
884		4		3
885		0		0
886		1		0
887		0		0
888		3		2
889		2		1
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894		2		1
895		0		0
896		0		0
897		1		0
898		2		1
899		3		2
900		1		0
901		1		0
902		1		0
903		3		2
904		0		0
905		0		0
906		3		2
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908		0		0
909		2		1
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911		1		0
912		2		1
913		1		0
914		1		0
915		3		2
916		1		0
917		3		2
918		2		1
919		2		1
920		0		0
921		1		0

922		1		0
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3768	2	1
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3770	0	0
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3773	1	0
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3775	1	0
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3787	2	1
3788	0	0
3789	3	2
3790	1	0
3791	3	2

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3794	2	1
3795	3	2
3796	1	0
3797	0	0
3798	2	1
3799	1	0
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3801	3	2
3802	0	0
3803	0	0
3804	4	3
3805	3	2
3806	2	1
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3955	2	1

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3963	0	0
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3975	0	0
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3977	1	0
3978	3	2
3979	3	2
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3983	1	0
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3989	1	0
3990	1	0
3991	4	3
3992	1	0
3993	1	0
3994	2	1
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3996	1	0

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4003		2		1
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4006		1		0
4007		1		0
4008		4		3
4009		0		0
4010		0		0
4011		1		0
4012		1		0
4013		0		0
4014		0		0
4015		1		0
4016		0		0
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4018		2		1
4019		0		0
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4078		1		0

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4083		0		0
4084		2		1
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4086		1		0
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4088		0		0
4089		1		0
4090		1		0
4091		2		1
4092		0		0
4093		1		0
4094		0		0
4095		1		0

Factor: 0,711

Chaves Preenchidas: 2911

Número total de colisões: 2090

Capacidade: 4096

Relatório: SDBM

Página 101 até 201

Número total de colisões: 2173

Tempo total de inserção: 3,159 ms

Tempo total de busca: 0,946 ms

Como deseja visualizar a tabela?

- 1 - Resumo paginado (apenas totais por faixa)
- 2 - Paginado detalhado (com detalhes de cada posição)
- 3 - Tudo de uma vez

Escolha (1, 2 ou 3): 3

== TABELA DE HASH - VISUALIZAÇÃO COMPLETA ==

Posição	Chaves	Colisões
0	0	0
1	0	0
2	2	1
3	1	0
4	0	0

5	0	0
6	0	0
7	0	0
8	0	0
9	1	0
10	3	2
11	3	2
12	3	2
13	2	1
14	0	0
15	1	0
16	2	1
17	4	3
18	0	0
19	2	1
20	2	1
21	0	0
22	3	2
23	2	1
24	2	1
25	0	0
26	1	0
27	1	0
28	3	2
29	1	0
30	2	1
31	1	0
32	1	0
33	1	0
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35	3	2
36	2	1
37	0	0
38	2	1
39	0	0
40	2	1
41	2	1
42	1	0
43	0	0
44	1	0
45	1	0

46		1		0
47		0		0
48		1		0
49		2		1
50		1		0
51		1		0
52		0		0
53		1		0
54		3		2
55		0		0
56		1		0
57		2		1
58		1		0
59		0		0
60		3		2
61		1		0
62		0		0
63		2		1
64		2		1
65		5		4
66		2		1
67		0		0
68		1		0
69		0		0
70		0		0
71		0		0
72		1		0
73		0		0
74		3		2
75		2		1
76		1		0
77		2		1
78		0		0
79		1		0
80		2		1
81		0		0
82		1		0
83		1		0
84		4		3
85		3		2
86		1		0

87		0		0
88		2		1
89		1		0
90		1		0
91		0		0
92		1		0
93		0		0
94		1		0
95		0		0
96		0		0
97		1		0
98		1		0
99		3		2
100		3		2
101		1		0
102		2		1
103		0		0
104		0		0
105		2		1
106		2		1
107		0		0
108		2		1
109		1		0
110		0		0
111		0		0
112		1		0
113		0		0
114		0		0
115		2		1
116		1		0
117		1		0
118		2		1
119		2		1
120		4		3
121		4		3
122		1		0
123		2		1
124		1		0
125		0		0
126		0		0
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128	1	0
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130	2	1
131	1	0
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133	0	0
134	1	0
135	0	0
136	1	0
137	0	0
138	3	2
139	1	0
140	2	1
141	0	0
142	3	2
143	3	2
144	0	0
145	2	1
146	3	2
147	1	0
148	5	4
149	0	0
150	2	1
151	0	0
152	4	3
153	0	0
154	1	0
155	2	1
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157	1	0
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159	2	1
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161	1	0
162	0	0
163	1	0
164	1	0
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166	1	0
167	1	0
168	1	0

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173	2	1
174	1	0
175	1	0
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177	0	0
178	1	0
179	0	0
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201	0	0
202	2	1
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207	3	2
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243		0		0
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246		1		0
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258	1	0
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311	2	1
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318	3	2
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362	1	0
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368	0	0
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578		1		0

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581	1	0
582	1	0
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Factor: 0,690

Chaves Preenchidas: 2828

Número total de colisões: 2173

Capacidade: 4096

Process finished with exit code 0