

Algorithmics	Student information	Date	Number of session
	UO: 294039	1 /02/2024	0
	Surname: Rodriguez Gomara		
	Name: Maria		

## Factor 1: problem size .

Size	PythonA1(ms)
10000	2671
20000	10587
40000	42901
80000	Out of time
160000	Out of time
320000	Out of time
640000	Out of time

## Factor 2: computer performance

Size	Computer1(ms)	Computer2(ms)
10000	2671	2427
20000	10587	9693
40000	42901	39743
80000	Out of time	Out of time
160000	Out of time	Out of time
320000	Out of time	Out of time
640000	Out of time	Out of time

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## Factor 3: implementation environment

Size	PythonA1(ms)	JavaA1(ms)
10000	2671	142
20000	10587	476
40000	42901	1932
80000	Out of time	7247
160000	Out of time	32074
320000	Out of time	Out of time
640000	Out of time	Out of time

## Factor 4: algorithm that is used

Time modules of PythonA1, PythonA2 and PythonA3

Size	PythonA1(ms)	PythonA2(ms)	PythonA3(s)
10000	2671	0322	0149
20000	10587	1122	0665
40000	42901	4189	2034
80000	Out of time	16809	8340
160000	Out of time	58492	30708
320000	Out of time	Out of time	Out of time
640000	Out of time	Out of time	Out of time

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Time modules of JavaA1, JavaA2 and JavaA3 without optimization

Size	JavaA1(ms)	JavaA2(ms)	JavaA3(ms)
10000	142	17	18
20000	476	50	49
40000	1932	179	135
80000	7247	652	726
160000	32074	2504	2031
320000	Out of time	9471	9275
640000	Out of time	35568	44648

Time modules of JavaA1, JavaA2 and JavaA3 with optimization

Size	JavaA1(ms)	JavaA2(ms)	JavaA3(ms)
10000	811	102	44
20000	3223	362	134
40000	13369	1317	421
80000	51692	4761	1549
160000	Out of time	18357	6213
320000	Out of time	Out of time	27526
640000	Out of time	Out of time	Out of time