	Student information	Date	Number of session
Algorithmics	UO: 293693	08/02/2024	0
	Surname: Castro Álvarez	Escuela de	



Ingeniería Informática

Activity 2. Factor 1: problem size

Name: Ana

RAM: 8 GB

CPU: Intel Core i7-4790 3.6 GHz

N	Time	
10000	2,427	
20000	9,693	
40000	39,743	
80000	OoT	
160000	OoT	
320000	OoT	
640000	OoT	

Activity 3. Factor 2: computer performance

RAM: 8 GB

CPU: Intel Core i7-4790 3.6 GHz

N	Time	
10000	2,671	
20000	10,587	
40000	42,901	
80000	OoT	
160000	OoT	
320000	OoT	
640000	ОоТ	

Algorithmics	Student information	Date	Number of session
	UO: 293693	08/02/2024	0
	Surname: Castro Álvarez		
	Name: Ana		

Activity 4. Factor 3: implementation environment

N	Time Java	Time Python
10000	0,124	2,427
20000	0,472	9,693
40000	1,852	39,743
80000	7,055	ОоТ
160000	30,120	ОоТ
320000	ОоТ	ОоТ
640000	OoT	OoT

Activity 4. Factor 4: algorithm that is used

	•	1	1
N	Time PythonA1	Time PythonA2	Time PythonA3
10000	2,427	2,671	0,124
20000	9,693	10,587	0,472
40000	39,743	42,901	1,852
80000	ОоТ	ОоТ	7,055
160000	ОоТ	ОоТ	30,120
320000	ОоТ	ОоТ	ОоТ
640000	ОоТ	ОоТ	ОоТ

N	Time JavaA1	Time JavaA2	Time JavaA3
10000	0,124	0,300	0,139
20000	0,472	1,176	0,517
40000	1,852	3,905	2,132
80000	7,055	15,342	7,577
160000	30,120	57,923	30,116
320000	ОоТ	ОоТ	ОоТ
640000	ОоТ	ОоТ	ОоТ

Algorithmics	Student information	Date	Number of session
	UO: 293693	08/02/2024	0
	Surname: Castro Álvarez		
	Name: Ana		

Without optimizations

N	Time JavaA1	Time JavaA2	Time JavaA3
10000	1,239	0,124	0,083
20000	4,521	0,478	0,271
40000	17,212	1,810	0,921
80000	ОоТ	6,627	3,863
160000	ОоТ	24,597	13,748
320000	ОоТ	ОоТ	48,122
640000	ОоТ	ОоТ	ОоТ