


Algorithmics	Student information	Date	Number of session
	UO: 299874	03/02/2025	1
	Surname: Puebla	 Escuela de Ingeniería Informática Universidad de Oviedo	
	Name: Álvaro		



## Activity 1. [Factor 1: problem size]

n ( $10^3$ )	Time (mS)
10	1542
20	6221
40	25170
80	103700
160	408460
320	1661297
640	OoT

## Activity 2. [Factor 2: computer performance]

n ( $10^3$ )	Time 1 (mS)	Time 2 (mS)
10	1542	1590
20	6221	6341
40	25170	26828
80	103700	OoT
160	408460	OoT
320	1661297	OoT
640	OoT	OoT

RAM 1: 16,0 GB

CPU 1: 12<sup>th</sup> Gen Intel(R) Core(TM) i5-12400

RAM 2: 8,0 GB

CPU 2: 12<sup>th</sup> Gen Intel(R) Core(TM) i5-12400

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### Activity 3. [Factor 3: implementation environment]

n (10 <sup>3</sup> )	Py A1 (mS)	Ja A1 (mS)
10	1542	76
20	6221	297
40	25170	1154
80	103700	4656
160	408460	18013
320	1661297	72769
640	OoT	289120

### Activity 4. [Factor 4: algorithm that is used]

n(10 <sup>3</sup> )	PyA1(mS)	PyA2(mS)	PyA3(mS)	JaA1(mS)	JaA2(mS)	JaA3(mS)	JSA1(mS)	JSA2(mS)	JSA3(mS)
10	1542	179	88	76	10	5	314	37	20
20	6221	667	331	297	32	16	1231	131	69
40	25170	2520	1255	1154	115	61	4888	486	255
80	103700	9567	4755	4656	415	213	19457	1817	940
160	408460	35929	18005	18013	1551	769	77765	6781	3516
320	1661297	OoT	68037	72769	5812	2932	OoT	25650	13227
640	OoT	OoT	OoT	289120	22181	10999	OoT	96665	49805

JS is Java SIN (Without compiler)