


Algorithmics	Student information	Date	Number of session
	UO:300896	30/01/25	1
	Surname: De San Claudio Mesa	 Escuela de Ingeniería Informática Universidad de Oviedo	
	Name: Alejandro		



Activity 1. Factor 1 [Problem Size]

n	time(ms)
10000	4491
20000	18097
40000	OoT
80000	OoT
16000	OoT
32000	OoT

Activity 2. Factor 2 [computer power]

CPU1: 12th Gen Intel(R) Core(TM) i5-12400 2.50 GHz

RAM1: 16,0 GB

CPU2: Intel(R) Core(TM) i5-8250U CPU @ 1.60GHz

RAM2: 16,0 GB

PYTHON1	
n	time(ms)
10000	4491
20000	18097
40000	OoT
80000	OoT
16000	OoT
32000	OoT

PYTHON2	
n	time(ms)
10000	3345
20000	15636
40000	OoT
80000	OoT
16000	OoT
32000	OoT

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Activity 3. Factor 3 [implementation environment]

JAVA1		
n	time(ms)	
10000	73	
20000	290	
40000	1107	
80000	4501	
16000	17838	
32000	OoT	

PYTHON1		
n	time(ms)	
10000	4491	
20000	18097	
40000	OoT	
80000	OoT	
16000	OoT	
32000	OoT	

Activity 4. Factor 4 [algorithm that is used]

PYTHON2		
n	time(ms)	
10000	395	
20000	1709	
40000	6761	
80000	26471	
16000	OoT	
32000	OoT	

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PYTHON1

n	time(ms)
10000	3345
20000	15636
40000	OoT
80000	OoT
16000	OoT
32000	OoT

PYTHON3

n	time(ms)
10000	193
20000	706
40000	2881
80000	13049
16000	58530
32000	OoT

JAVA2 OPTIMITATION

n	time(ms)
10000	18
20000	53
40000	191
80000	707
16000	2673
32000	11298
6400	42859

JAVA3 OPTIMITATION

n	time(ms)
10000	13
20000	34
40000	127
80000	466

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16000	1569
32000	5873
64000	27377

JAVA1 OPTIMITATION

<u>n</u>	<u>time(ms)</u>
<u>10000</u>	<u>133</u>
<u>20000</u>	<u>505</u>
<u>40000</u>	<u>1978</u>
<u>80000</u>	<u>7907</u>
<u>16000</u>	<u>32440</u>

JAVA2 NO OPTIMITATION

<u>n</u>	<u>time(ms)</u>
10000	57
20000	212
40000	733
80000	3050
16000	13279
32000	40502

JAVA3 NO OPTIMITATION

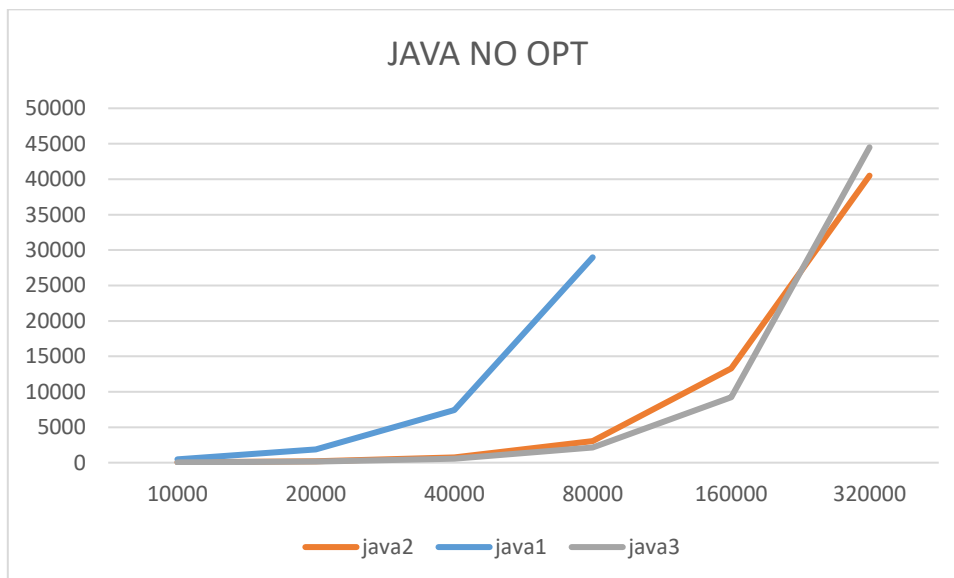
<u>n</u>	<u>time(ms)</u>
10000	43
20000	147
40000	541
80000	2140
16000	9248
32000	44498

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JAVA1 NO

OPTIMITATION

<u>n</u>	<u>time(ms)</u>
<u>10000</u>	<u>471</u>
<u>20000</u>	<u>1855</u>
<u>40000</u>	<u>7420</u>
<u>80000</u>	<u>28975</u>



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