**Parallel programming**

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**Práctica 1**

Ejercicio 1

Complexity of the algorithm is O(n3)

|  |  |
| --- | --- |
| n | Time [s] |
| 100 | 0,0826881 |
| 200 | 0,6755016 |
| 300 | 2,4074413 |
| 400 | 5,8597319 |
| 500 | 12,4586063 |
| 600 | 22,8422746 |
| 700 | 39,4468871 |
| 800 | 62,0890274 |
| 900 | 90,2901087 |
| 1000 | 131,9397722 |

Ejercicio 2

|  |  |
| --- | --- |
| p | Time [s] |
| 1 | 12,8612525 |
| 2 | 7,54399 |
| 4 | 6,2636767 |
| 6 | 5,6905776 |
| 8 | 7,3489292 |

Ejercicio 3

|  |  |
| --- | --- |
| n | Time [s] |
| 100 | 0,3250096 |
| 200 | 2,6091205 |
| 300 | 9,1800194 |
| 400 | 21,5425303 |
| 500 | 41,9047887 |

Ejercicio 4

|  |  |
| --- | --- |
| n | Time [s] |
| 100 | 0,00018 |
| 200 | 0,0002762 |
| 300 | 0,0013521 |
| 400 | 0,0012344 |
| 500 | 0,001889 |
| 600 | 0,0043233 |
| 700 | 0,0047167 |
| 800 | 0,0088088 |
| 900 | 0,0118711 |
| 1000 | 0,0171371 |