Activity 1. [Problem size]

With A1v0 algorithm:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| n | 10000 | 20000 | 40000 | 80000 | 160000 | 320000 | 640000 |
| Ex. Time (ms) | 1565 | 6454 | 25445 | 102032 | OoT | OoT | OoT |

Activity 4. [Implementation environment]

With A1v0 algorithm implemented in Java:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| n | 10000 | 20000 | 40000 | 80000 | 160000 | 320000 | 640000 |
| Ex. Time (ms) | 0073 | 0297 | 1121 | 4401 | 17582 | OoT | OoT |

Activity 5. [Algorithm that is used]

With A2 algorithm:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| n | 10000 | 20000 | 40000 | 80000 | 160000 | 320000 | 640000 |
| Ex. Time (ms) | 0193 | 0694 | 2564 | 9556 | 36306 | OoT | OoT |

With A3 algorithm:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| n | 10000 | 20000 | 40000 | 80000 | 160000 | 320000 | 640000 |
| Ex. Time (ms) | 0094 | 0344 | 1276 | 4781 | 17973 | 68146 | OoT |

With A2 algorithm implemented in Java:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| n | 10000 | 20000 | 40000 | 80000 | 160000 | 320000 | 640000 |
| Ex. Time (ms) | 0009 | 0031 | 0113 | 0409 | 1538 | 5795 | 21914 |

With A3 algorithm implemented in Java:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| n | 10000 | 20000 | 40000 | 80000 | 160000 | 320000 | 640000 |
| Ex. Time (ms) | 0004 | 0015 | 0059 | 0210 | 0773 | 2892 | 1093 |