Record the results of your timing experiments in the table below:

|  |  |  |  |
| --- | --- | --- | --- |
| Algorithm | Input | Time | Number of Triplets? |
| ThreeSumA | 8ints.txt | 0.0 | 4 |
|  | 1Kints.txt | 0.565 | 70 |
|  | 2Kints.txt | 4.885 | 528 |
|  | 4Kints.txt | 37.089 | 4039 |
|  | 8Kints.txt | 298.839 | 32074 |

|  |  |  |  |
| --- | --- | --- | --- |
| Algorithm | Input | Time | Number of Triplets? |
| ThreeSumB | 8ints.txt | 0.001 | 4 |
|  | 1Kints.txt | 0.027 | 70 |
|  | 2Kints.txt | 0.099 | 528 |
|  | 4Kints.txt | 0.354 | 4039 |
|  | 8Kints.txt | 1.517 | 32074 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | 0.00 | 0.565 | 4.885 | 37.089 | 298.839 |  |

Chart, line chart

Description automatically generatedChart, line chart

Description automatically generatedChart, line chart

Description automatically generated

1. Which algorithm performs better (i.e. take less time in relation to the size of the input)?

ThreeSumB

2. Why do you think this is the case?