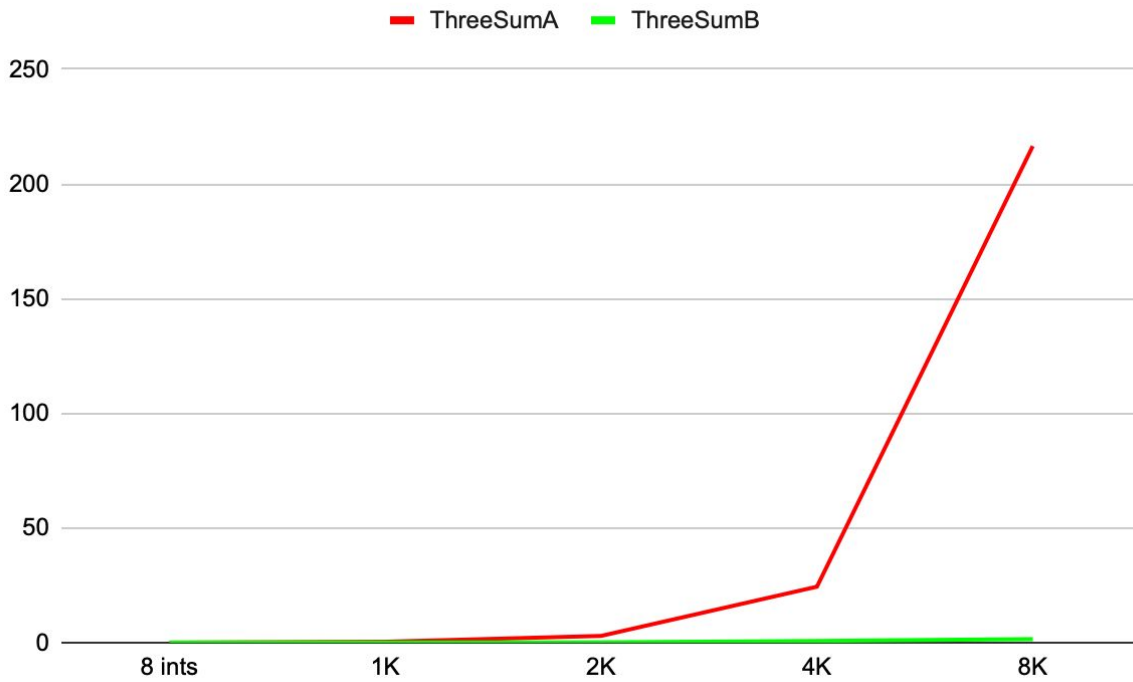


Practical 1

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Algorithm	Input	Time	Number of triplets
ThreeSumA	8ints.txt	0.0	4
	1Kints.txt	0.439	70
	2Kints.txt	3.062	528
	4Kints.txt	27.041	4039
	8Kints.txt	246.615	32074

Algorithm	Input	Time	Number of triplets
ThreeSumB	8ints.txt	0.001	4
	1Kints.txt	0.05	70
	2Kints.txt	0.103	528
	4Kints.txt	0.35	4039
	8Kints.txt	1.645	32074

Q1.The Algorithm 'ThreeSumB' performs better, as it takes considerably less time to run.

Q2. I think this is the case because algorithm 'ThreeSumB' uses Binary search. This way is much faster and more efficient as it doesn't scan each element of the array(Linear search), but instead it scans half the array, which in turn makes the algorithm a lot faster. The array needs to be sorted to perform a binary search.