

Assignment 1 Report

Input size	Brute force	Divide and Conquer
10	0.000540	0.000241
100	0.025405	0.000990
10e5	122.420638	0.079709
10e6	15654.2759	1.027876

The brute force method should take $O(n^2)$ time to run and divide and conquer method should take $O(n \log(n))$ time to run which can be seen from the graph below

