

Input Size	Calculated Average	Real Average
100	2575.00	2524.87
500	62875.00	62617.34
1000	250750.00	250228.40
2500	1564375.00	1562928.29

For the output, we set our $n = \{100, 500, 1000, 2500\}$ since it takes a long time to get 3500
We also created a variable repeat, that repeats 100,000 times
We calculated the average and real average which resulted in the same value appearing for both. The elements are sorted from index 1 to index n
As for the Total number of steps we divided it by 100,000.