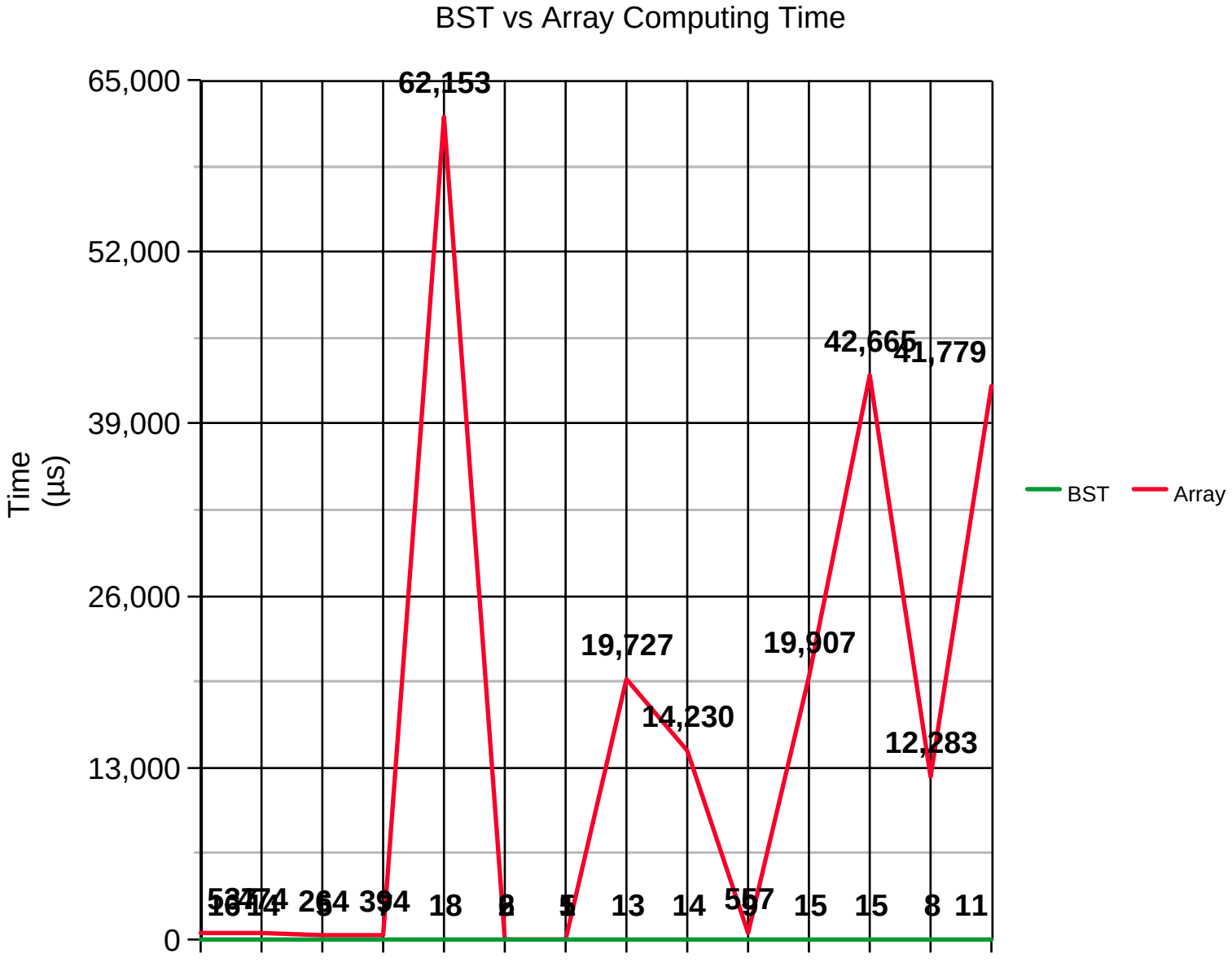
BST vs Array Computing Time
65,000
52,000
39,000
26,000
13,000
0
Time (µs)
62,153
42,665
41,779
19,727
19,907
14,230
12,283
557
BST
Array

To initialize, the binary search tree took about twice as long as the array (~4.06s to ~~1.74s), but after the data structure was set up, the BST structure performed consistently better than the array. The BST had search times from 5-18μs, where the array had wildly varying search times of 1-62,153μs.

The only time the array structure performed better was when the value to search was very near the beginning of the array – within the first 50 or so indexes. Overall, the BST is a much better structure when working with large data sets, and an array is a better solution when working with a small data set.