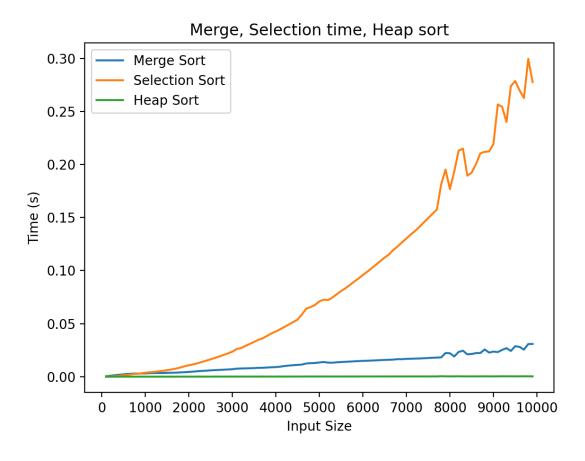
CS271 Project 3 Wilson Le, Tung Luu

October 2021



- Asymptotic time complexity of the heap sort algorithm on an array that is already sorted:
 - $-\Theta(n\log n)$
- Asymptotic time complexity on an array that is in reverse order:
 - $-\Theta(n\log n)$
- Best case asymptotic time complexity of heap sort
 - $-\Theta(n\log n)$
- What kind of input does the best case asymtotic time complexity occur
 - Asymtotic time complexity of heap sort will always be $\Theta(n \log n)$, because the algorithm will carry on regardless of the order of the input list.