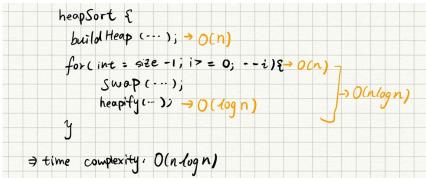
b.



c.

Since there is no new array or variable allocated in the memory, and all the operations are done based on the original input array; hence, the space complexity is O(1).

d.

No. It will not change the time and space complexity.

Reason: 1. Build a min-heap.

2.loop through the array from left to right(start from the second element), inside the loop, heapify the array in each iteration