

a. ^{submit} other program (python) Man Yeung (Sam)

b. When array is sorted, the runtimes will be faster because it will just go one direction until the end by half of ^{the} time. No matter what approach.

Global maximum will go the end. $O(n^2)$

Linear search will go the end. $O(n^2)$

Divide and conquer will go one way to the end,
 ~~half~~ by half. $O(\log n)$.

c. The impact is that it is looking for true peak.
 It is not guaranteed to find a peak.

Because the array may have all elements are equal to each other or one side is always equal, then we cannot find a peak in this situation.