1) Finding out the maximum and second maximum values in a vector that contains **n** elements :

Answer:  **T(n) = O (n)**  [ Iterating throughout the vector one time to find the maximum value and Iterating through the vector again to discover the second maximum value. ]

2) Searching for a target value in a sorted vector that contains **n** elements:

Answer:  **T(n) = O ( log(n) )**  [ By using binary search, the worst-case would-be O ( log n ), so, we can find the target in logarithmic time. ]

3) Deleting the first character from a non-empty string that contains **n** elements:

Answer:  **T(n) = O (n)**[ After, deleting the first character from a non-empty string. Shifting the remaining characters to fill the space requires linear time. ]

4) Deleting the last character from a non-empty string that contains **n** elements:

Answer: **T(n) = O (1)**[ Deleting the last character can be achieved in constant time just by adjusting the string’s length. ]