**LAB 4 COMPLEXITY ANALYSIS**

QUESTION-1 : INVERSION IN AN ARRAY

* Time complexity : O(N\*LogN)
* Space Complexity: O(LogN)

QUESTION-2 : MEDIAN OF TWO SORTED ARRAYS

* Time complexity : O(Log(M+N))
* Space Complexity: O(1)

QUESTION-3 : K-TH LARGEST ELEMENT IN AN ARRAY

* Time complexity : O(N\*LogK)
* Space Complexity: O(K)

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