

C++ Assignments | Problems on sorting | Week 9

- 1. What is an in-place sorting algorithm?
 - a) It needs O(1) or O(logn) memory to create auxiliary locations
 - b) The input is already sorted and in-place
 - c) It requires additional storage
 - d) It requires additional space
- 2. In the following scenarios, when will you use selection sort?
 - a) The input is already sorted
 - b) A large file has to be sorted
 - c) Large values need to be sorted with small keys
 - d) Small values need to be sorted with large keys
- 3. Given an integer array and an integer k where k<=size of array, We need to return the kth smallest element of the array.
- 4. Find the minimum operations required to sort the array in increasing order. In one operation , you can set each occurrence of one element to 0.
- 5. Given an array, arr[] containing n integers, the task is to find an integer (say K) such that after replacing each and every index of the array by |ai − K| where (i ∈ [1, n]), results in a sorted array. If no such integer exists that satisfies the above condition then return -1.