DSA ASSIGNMENT-1

SUMMARY

* QUESTION 1(Bribed Que)

ALGORITHM:

Insertion Sort

Every time the array has to swap, the count variable created is incremented, thus giving us total number of swaps.

* QUESTION 2(Going Off Charts)

ALGORITHM:

A simple linear search is performed using some conditions to keep track of working hours. Binary search is not used because array cannot be sorted, data will lose its meaning if sorted.

* QUESTION 3(Fixing Code in Production)

ALGORITHM:

As the array is already sorted binary search is used because of its speed and speed being a requirement in question.

* QUESTION 4(Selecting The Median)

ALGORITHM:

Firstly, elements are sorted using insertion sort then after that median is taken and returned.

**NOTE:**

readFile function takes in input a text file name and an integer pointer variable

and returns the pointer to array that is read now this array is stored in another integer pointer and then can be worked on by other functions after putting all values of pointer into a proper array form of c++.for writing this read file function I took some help from stackoverflow and some other websites but it is not copied.