End Semester Lab Examination, Febuary-2023

CSE 1001: Introduction to Computer Programming

SET-B

Problem (Part-1)

Let you have a set of n students ICP marks. Find minimum and maximum ICP mark and how many times they both occur in the set of n students. After counting maximum and minimum ICP marks assign the grades accordingly and print all the position of maximum and minimum ICP mark.

ICP_Marks	Grades
90-100	O
80-89	A
70-79	B
60-69	C
50-59	D
40-49	E
<40	F

Part-1 [8 points]

1.[1 point] Create an array of size n.

0	1	2	3	4	5	6	7	8

2.[1 point] Initialize the array.

39	66	55	75	75	85	81	85	42
0	1	2	3	4	5	6	7	8

3.[2 points] Counting Maximum and Minimum ICP mark.

Count the maximum and minimum ICP mark in a single pass only(i.e using one loop only).
Max_icp_mark=85

Max_count=2

Min_icp_mark=39

 Min_count=1

4.[2 points] Printing position of maximum and minimum ICP marks. Print all the position of the maximum ICP marks similarly print it for minimum ICP marks.

Max_position:-6 , 8

Min_Position:-1

 5.[2 points] Assigning Grades as per the given table.

       39---F 66---C 55---D 75---B 75---B 85---A 81---A 85---A 42---E

More over for the above Problem(part-1) create a java file named as Find_Max_Min.java

Use meaningful identifiers to enhance readability of your code. Please don't plagiarize.

Problem (Part-2)

- Find the second largest ICP mark.

- Count how many times it occurs.

- Print their respective positions.

Part-1 [7 points]

1.[1 point] Create an array of size n.

2.[1 point] Initialize the array.

36	66	55	75	75	85	81	85	42
0	1	2	3	4	5	6	7	8

3.[2 points] Find the second largest ICP mark.

     Second_max_icp_mark=75

4.[2 points] Count how many times it occurs

     Second_max_count=2

5.[1 point] Print their respective positions.

     Second_max_position:-4 , 5

More over for the above Problem(part-2) create a java file named as Find_Second_Max.java

Use meaningful identifiers to enhance readability of your code. Please don't plagiarize.

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