TCS NQT 2025 -20th April coding questions with solution

Learning With Ram

Question1: Temperature Classifier + Average
Given two integer temperature values as input, you are required to:

Classify each temperature based on the following rules:

If temperature < 10 → Print "it's very cool"
If temperature is between 10 and 20 (inclusive) → Print "it's cold"
If temperature > 20 → Print "it's warm"
Then:

Print both classification results, separated by commas
Calculate and print the average of the two temperatures as a double (with one decimal point precision if needed)
Print both temperatures in reverse order (second temperature first, then the first)

Input Format
Two integers, separated by space
Output Format
First line: classification of temperature 1 and temperature 2 (comma-separated)
Second line: average of the two as a double
Third line: the temperatures in reverse order, space-separated

Example
Input:

5 25

Output:

it's very cool, it's warm
15.0
25 5

Code:-

```
#include <iostream>

#include <iomanip> // for setprecision

using namespace std;
```

```
string classifyTemperature(int temp) {
    if (temp < 10)
        return "it's very cool";
    else if (temp <= 20)
        return "it's cold";
    else
        return "it's warm";
}

int main() {
    int temp1, temp2;
    cin >> temp1 >> temp2;

    // Classification
    string class1 = classifyTemperature(temp1);
    string class2 = classifyTemperature(temp2);

    // Print classifications
    cout << class1 << ", " << class2 << endl;

    // Calculate and print average
    double avg = (temp1 + temp2) / 2.0;
    cout << fixed << setprecision(1) << avg << endl;

    // Print temperatures in reverse order
    cout << temp2 << " " << temp1 << endl;

    return 0;
}
```

Q2)Problem Statement
You are given a matrix of size m x n (rows × columns). Your task is to:

Check if the input dimensions m or n are less than or equal to 0:

If true, print: "invalid input"
Otherwise, read the matrix elements and find and print the minimum value in the matrix.

Input Format
The first line contains two integers m and n (number of rows and columns).
The next m lines each contain n integers (matrix elements).

Output Format
If m <= 0 or n <= 0, print:

invalid input

Else, print the minimum element in the matrix.

Example
Input:

3 3
1 2 3
3 -3 4
-1 2 3

Output:
-3

Code:-

```
#include <iostream>

#include <climits> // for INT_MAX

using namespace std;


int main() {

   int m, n;

   cin >> m >> n;
```

```
    if (m <= 0 || n <= 0) {
        cout << "invalid input" << endl;
        return 0;
    }

    int minVal = INT_MAX;

    for (int i = 0; i < m; ++i) {
        for (int j = 0; j < n; ++j) {
            int x;
            cin >> x;
            if (x < minVal)
                minVal = x;
        }
    }

    cout << minVal << endl;

    return 0;
}
```