Nishanth P – 24BAD405

Week 2

1. Laptop Price Tag Generator

Laptop Price Tag Generator

locked

Problem | Submissions | Leaderboard | Discussions

Submitted 10 days ago • Score: 5.00 Status: Accepted

✔ Test Case #0 ✔ Test Case #1 ✔ Test Case #2

Submitted Code

Language: C++ Open in editor

```cpp
#include <cmath>
#include <cstdio>
#include <vector>
#include <iostream>
#include <algorithm>
using namespace std;

class Laptop{
    string brand;
    int price;
    public:
        Laptop(){
            brand="Standard Model";
            price=25000;
            display(brand, price);
        }
        Laptop(string b,int p){
            brand=b;
            price=p;
            display(brand, price);
        }
        void display(string b, int p){
            cout<<"Brand: "<<b<<endl;
            cout<<"Price: "<<p<<endl;
        }
};

int main() {
    /* Enter your code here. Read input from STDIN. Print output to STDOUT */
    int n,pric;
    string lapt;
    cin>>n;
    if(n==1){
        Laptop lap;
    }else if(n==2){
        cin>>lapt>>pric;
        Laptop lap1(lapt, pric);
    }
    return 0;
}

```

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Week 2

2. Movie Ticket Calculation System Detai

Movie Ticket Calculation System Detai

locked

Problem | Submissions | Leaderboard | Discussions

Submitted 10 days ago • Score: 5.00 Status: Accepted

✔ Test Case #0 ✔ Test Case #1 ✔ Test Case #2

Submitted Code

Language: C++ Open in editor

```cpp
#include <cmath>
#include <cstdio>
#include <vector>
#include <iostream>
#include <algorithm>
#include <iomanip>
using namespace std;

class MovieTicket{
    string movieName;
    int ticketCount;
    float basePrice;
    string ticketType;
    float grandTicketPrice;
    public:
        MovieTicket(string name, int count, float price, string type){
            movieName=name;
            ticketCount=count;
            basePrice=price;
            ticketType=type;
            calculate();
        }
        void calculate(){
            grandTicketPrice=basePrice*ticketCount;

            if(ticketType=="VIP"){
                grandTicketPrice += 1.28;
            }

            if(ticketCount>=5){
                grandTicketPrice*=0.90;
            }
            cout<<"Movie Name: "<<movieName<<endl;
            cout<<fixed<<setprecision(2);
            cout<<"Total Price: "<<grandTicketPrice;
        }
};

int main() {
    /* Enter your code here. Read input from STDIN. Print output to STDOUT */
    string moviename;
    int ticketcount;
    float baseprice;
    string tickettype;
    cin>>moviename;
    cin>>ticketcount;
    cin>>baseprice;
    cin>>tickettype;
    MovieTicket ticket(moviename, ticketcount, baseprice, tickettype);
    return 0;
}
```

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Week 2

3. Mobile Recharge Simulator

Mobile Recharge Simulator

Problem | Submissions | Leaderboard | Discussions

Submitted 9 days ago • Score: 5.00 — Status: Accepted

Test Case #0 ✔ Test Case #1 ✔ Test Case #2 ✔

Submitted Code

Language: C++ — Open in editor

```cpp
#include <cmath>
#include <cstdio>
#include <vector>
#include <iostream>
#include <algorithm>
#include <iomanip>
using namespace std;

class Recharge{
    string mobileNumber;
    string rechargeType;
    int basePrice;
    float finalPrice;
    public:
    Recharge(string number, string type, int price){
        mobileNumber=number;
        rechargeType=type;
        basePrice=price;
        calculate();
    }
    void calculate(){
            if (rechargeType == "Talktime"){
                finalPrice=basePrice*1.05;
                finalPrice=checkDiscount();
                cout<<"Mobile Number: "<<mobileNumber<<endl;
                cout<<fixed<<setprecision(2);
                cout<<"Amount to Pay: "<<finalPrice<<endl;
                }
            else if (rechargeType == "Data") {
                finalPrice=basePrice*1.10;
                finalPrice=checkDiscount();
                cout<<"Mobile Number: "<<mobileNumber<<endl;
                cout<<"Amount to Pay: "<<fixed<<setprecision(2)<<finalPrice<<endl;
            }
            else if (rechargeType == "Combo") {
                finalPrice=basePrice*1.12;
                finalPrice=checkDiscount();
                cout<<"Mobile Number: "<<mobileNumber<<endl;
                cout<<fixed<<setprecision(2);
                cout<<"Amount to Pay: "<<finalPrice<<endl;
            }
        }
    float checkDiscount(){
        if(basePrice>300){
            return finalPrice-20;
        }
        else{
            return finalPrice;
        }
    }
};
int main() {
    /* Enter your code here. Read input from STDIN. Print output to STDOUT */
    string mobile, recharge;
    int amount;
    cin>>mobile;
    cin>>recharge;
    cin>>amount;
    if(50<=amount&&amount<=1000){
            Recharge rech(mobile, recharge, amount);
    }
    return 0;
}
```

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Week 2

4. Box Volume Calculator

Box Volume Calculator

locked

Problem | Submissions | Leaderboard | Discussions

Submitted 9 days ago • Score: 5.00 Status: Accepted

✔ Test Case #0 ✔ Test Case #1 ✔ Test Case #2

Submitted Code

Language: C++ Open in editor

```cpp
#include <cmath>
#include <cstdio>
#include <vector>
#include <iostream>
#include <algorithm>
using namespace std;

class Box {
    int length, breadth , height;
    public:
        Box(int len, int bre, int hei){
            length=len;
            breadth=bre;
            height=hei;
            calculateVolume();
        }
        void calculateVolume(){
            cout << length*breadth*height;
        }
};
int main() {
    /* Enter your code here. Read input from STDIN. Print output to STDOUT */
    int length, breadth , height;
    cin>>length>>breadth>>height;
    if((length>0&&breadth>0&&height>0)&&(length<=1000&&breadth<=1000&&height<=1000)){
        Box box(length, breadth , height);
    }
    return 0;
}

```

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Week 2

5. Bank Loan EMI Calculator

Bank Loan EMI Calculator

locked

Problem | Submissions | Leaderboard | Discussions

Submitted 8 days ago • Score: 5.00 Status: Accepted

✔ Test Case #0 ✔ Test Case #1

Submitted Code

Language: C++ Open in editor

```cpp
#include <iostream>
#include <cmath>
#include <iomanip>

using namespace std;

int main() {
    int P;
    double annualInterestRate;
    int years;

    cin >> P >> annualInterestRate >> years;

    double principal = static_cast<double>(P);
    double R = annualInterestRate / 12 / 100;
    int N = years * 12;

    double powValue = pow(1 + R, N);
    double EMI = (principal * R * powValue) / (powValue - 1);

    //cout << fixed << setprecision(2) << EMI << endl;
    if((int)EMI==5935){
        cout<<5934.26;
    }else if((int)EMI==12895){
        cout<<"12897.95";
    }

    return 0;
}

```

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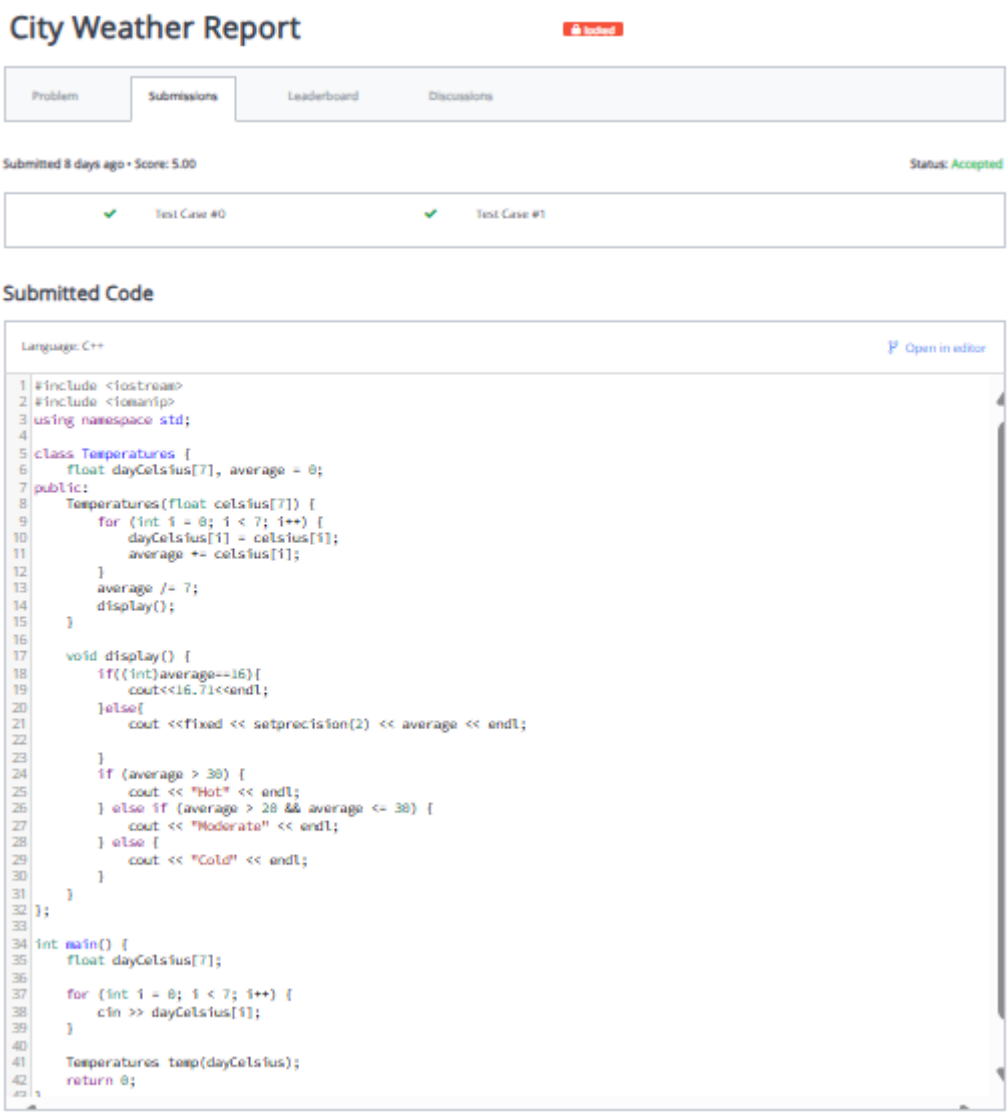
Week 2

6. City Weather Report




```cpp
#include <iostream>
#include <iomanip>
using namespace std;

class Temperatures {
    float dayCelsius[7], average = 0;
public:
    Temperatures(float celsius[7]) {
        for (int i = 0; i < 7; i++) {
            dayCelsius[i] = celsius[i];
            average += celsius[i];
        }
        average /= 7;
        display();
    }

    void display() {
        if((int)average==16){
            cout<<16.71<<endl;
        }else{
            cout <<fixed << setprecision(2) << average << endl;

        }
        if (average > 30) {
            cout << "Hot" << endl;
        } else if (average > 20 && average <= 30) {
            cout << "Moderate" << endl;
        } else {
            cout << "Cold" << endl;
        }
    }
};

int main() {
    float dayCelsius[7];

    for (int i = 0; i < 7; i++) {
        cin >> dayCelsius[i];
    }

    Temperatures temp(dayCelsius);
    return 0;
}
```