csp2201_practice_2

1d 18h
to test end

7/10 Attempted

Mehak Goy

☆ Overloading + operator

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MinMax class find the minimum and maximum values from the given values.
MinMax class has following data members and public member functions
int m_nMin ,int m_nMax
MinMax() : Default constructor to initialize data members of class with zero.
MinMax(int,int): Parameterized constructor
int GetMin() ; // it will return m_nMin
   int GetMax() //it will return m_nMax
    void getdata() //Function to enter values from keyboard.
   friend MinMax operator+(const MinMax &cM1, const MinMax &cM2); //Will find max and min value in object cM1 and cM2
   friend MinMax operator+(const MinMax &cM, int nValue); // will find max and min value in object cM and variable nValue
   friend MinMax operator+(int nValue, const MinMax &cM); //will find max and min value between nValue variable and object cM

Sample Input
10 15
8 11
3 12
Sample output
Result:(3, 16)

3 is minimum number is out of 10 ,15,8 ,11,3 ,12,5,8,16
16 is maximum number is out of 10,15,8,11,3,12,5,8,16

YOUR ANSWER

Original code | C++ ⌄ | ⚙

```
#include<↔
using namespace std;
class MinMax
{
private:
    int m_nMin; // The min value
    int m_nMax; // The max value

public:
    MinMax();
    MinMax(int nMin, int nMax);
    int GetMin() { return m_nMin; }
    int GetMax() { return m_nMax; }
    void getdata();
    friend MinMax operator+(const MinMax &cM1, const MinMax &cM2);
    friend MinMax operator+(const MinMax &cM, int nValue);
    friend MinMax operator+(int nValue, const MinMax &cM);
};
MinMax::MinMax()
    {
    m_nMin=0;
    m_nMax=0;
    }
MinMax::MinMax(int nMin,int nMax)
    {
    m_nMin=nMin;
    m_nMax=nMax;
    }
void MinMax::getdata()
    {
    cin>>m_nMin>>m_nMax;
    }
MinMax operator+(const MinMax &cM1, const MinMax &cM2)
    {
     MinMax d;
```

```
        }
    else
        {
        d.m_nMin=cM2.m_nMin;
        }
    if(cM1.m_nMax>cM2.m_nMax)
        {
        d.m_nMax=cM1.m_nMax;
        }
    else
        {
        d.m_nMax=cM2.m_nMax;
        }
    return d;
    }
MinMax operator+(const MinMax &cM,int nValue)
    {
    MinMax s;
    if(cM.m_nMin<nValue)
        {
        s.m_nMin=cM.m_nMin;
        }
    else
        {
        s.m_nMin=nValue;
        }
    if(cM.m_nMax>nValue)
        {
        s.m_nMax=cM.m_nMax;
        }
    else
        {
        s.m_nMax=nValue;
        }
    return s;
    }
MinMax operator+(int nValue,const MinMax &cM)
    {
    MinMax l;
    if(cM.m_nMin<nValue)
        {
        l.m_nMin=cM.m_nMin;
        }
    else
        {
        l.m_nMin=nValue;
        }
    if(cM.m_nMax>nValue)
        {
        l.m_nMax=cM.m_nMax;
        }
    else
        {
        l.m_nMax=nValue;
        }
    return l;
    }
```

```
int main()
{
    MinMax cM1,cM2,cM3;
    cM1.getdata();
    cM2.getdata();
    cM3.getdata();

    MinMax cMFinal=cM1+cM2+5+8+cM3+16;

    cout<<"Result:("<<cMFinal.GetMin()<<", "<<cMFinal.GetMax()<< ")"<<endl;

    return 0;
```

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□ Test against custom input

Run Code

Submit code & Continue

(You can submit any number of times)

Download sample test cases *The input/output files have Unix line endings. Do not use Notepad to edit them on windows.*

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