

LINK-2C++2018_Operator Overl... X

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LINK-2C++2018_Operator Overloading and Type Conversion

🕒 28d 19h to test end

28/37 Attempted

Kashish Chaudhary

☆ COMPLEX NUMBERS

Write a program to overload following operators +, -, and * to perform addition, subtraction, and multiplication on given complex numbers.

Sample Input

4 6
2 1
1 2
3 2

Sample Output

7-1i

Explanation

Sample Input : Four complex numbers are given
In first line, first number is the real part and 2nd number is the imaginary part of first complex number.
In second line, first number is the real part and 2nd number is the imaginary part of second complex number.
In third line, first number is the real part and 2nd number is the imaginary part of third complex number.
In forth line, first number is the real part and 2nd number is the imaginary part of forth complex number.

Sample Output

Result of C1+C2-C3*C4 means (4+6i)+(2+1i)-(1+2i)*(3+2i)

Original code

C++

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```
1 #include <iostream>
23
24 using namespace std;
25 class complex
26 {
27     int r,i;
28     public:
29
30     complex()
31     {
32         cin>>r>>i;
33     }
34     complex operator +(complex w)
35     {
36         complex q;
37         q.r=r+w.r;
38         q.i=i+w.i;
39         return q;
40     }
41     complex operator -(complex w)
42     {
43         complex q;
44         q.r=r-w.r;
45         q.i=i-w.i;
46         return q;
47     }
48     complex operator *(complex w)
49     {
50         complex q;
51         q.r=(r*w.r)+((-1)*(i*w.i));
52         q.i=(r*w.i)+(w.r*i);
53         return q;
54     }
55     void show()
56     {
57         if(i<0)
58             cout<<r<<i<<"i";
59         else
60             cout<<r<<"+"<<i<<"i";
61     }
62 };
63
64 int main() {
65     //
66 }
```

Line: 30 Col: 1

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LINK-2C++2018_Operator Overloading and Type Conversion

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👤 Kashish Chaudhary

☆ Unary Op Overloading for Time

Write a program to overload pre increment (++) and pre decrement (--) operators for a time (seconds)

1 Sample Input

2 6 59 59

3 Sample Output

4 Entered Time is

5 6:59:59

6 After Increment

7 7:0:0

8 After Decrement/decrement the updated value

9 6:59:59

NOTE: Use the 24 hour time format.

```
25 class T
26 {
27     int h,m,s;
28     public:
29
30     T()
31     {
32         cin>>h>>m>>s;
33     }
34     void show()
35     {
36         cout<<endl;
37         if(s>=60)
38         {
39             s=s-60;
40             m++;
41         }
42         else
43         {
44             if(s<0)
45             {
46                 m--;
47                 s=s+60;
48             }
49             if(m<0)
50             {
51                 h--;
52                 m=m+60;
53             }
54         }
55
56         if(m>=60)
57         {
58             m=m-60;
59             h++;
60         }
61         cout<<h<<":"<<m<<":"<<s;
62     }
63     void operator ++()
64     {
65         s++;
66     }
67     void operator --()
68     {
69         s--;
70     }
71 };
72
73 int main() {↵}
85
```

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☆Unary Op overloading for distance

Write a program to overload unary operators ++ and -- on a distance

Sample Input

5 200

Sample Output

Entered distance is

5 kms 200 mtrs

After Increment

6 kms 200 mtrs

After Decrement

5 kms 200 mtrs

We recommend you take a quick tour of our editor before you proceed. The timer will pause up to 90 seconds for the tour.

Start tour

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Original codeC++⌵⚙

```
1 #include <iostream>
23
24 using namespace std;
25 class dist
26 {
27     int kms,m;
28     public:
29
30     dist()
31     {
32         cin>>kms>>m;
33     }
34
35     void operator ++()
36     {
37         kms++;
38     }
39     void operator --()
40     {
41         kms--;
42     }
43     void show()
44     {
45         cout<<endl;
46         if(m>=1000)
47         {
48             m=m-1000;
49             kms++;
50         }
51         cout<<kms<<" kms "<<m<<" mtrs";
52     };
53
54 int main() {
55     }
```

Line: 30 Col: 1

☐ 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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👤 Kashish Chaudhary

☆ Unary Operator overloading

Write a program to apply overloading over unary operators (-, ++ and --) on a point

Sample Input

2 4

Sample Output

Entered point is

2X=4Y

After negation

-2X=4Y

After increment

3X=5Y

After decrement

1X=3Y

Explanation

Sample Input

Two numbers are given: first is the X value and second is the Y value of the point.

We recommend you take a quick tour of our editor before you proceed. The timer will pause up to 90 seconds for the tour. [Start tour](#)

Original code

C++

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```
1 #include <iostream>
23
24 using namespace std;
25 class point
26 {
27     int x,y;
28     public:
29
30     point()
31     {
32         x=0;
33         y=0;
34     }
35     void show()
36     {cout<<endl;
37       if(y>=0)
38         cout<<x<<"X"<<y<<"Y";
39       else
40         cout<<x<<"X"<<y<<"Y";
41     }
42     void set()
43     {
44         cin>>x>>y;
45     }
46     point operator -()
47     {
48         point q;
49         q.x=-x;
50         q.y=-y;
51         return q;
52     }
53
54     point operator --()
55     {
56         point q;
57         q.x=x--;
58         q.y=y--;
59         return q;
60     }
61
62     point operator ++()
63     {
64         point q;
65         q.x=x++;
66         q.y=y++;
67         return q;
68     }
69 }
```

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☆ Unary Operator overloading

Write a program to apply overloading over unary operators (-, ++ and --) on a point

Sample Input

24

Sample Output

Entered point is

 $2X+4Y$

After negation

 $-2X-4Y$

After increment

 $3X+5Y$

After decrement

 $1X+3Y$

Explanation

Sample Input

Two numbers are given: first is the X value and second is the Y value of the point.

```

23 using namespace std;
24 class point
25 {
26     int x,y;
27     public:
28
29
30 point()
31 {
32     x=0;
33     y=0;
34 }
35 void show()
36 { cout<<endl;
37     if (y==0)
38         cout<<x<<"X"<<y<<"Y";
39     else
40         cout<<x<<"X"<<y<<"Y";
41 }
42 void set()
43 {
44     cin>>x>>y;
45 }
46 point operator - ()
47 {
48     point q;
49     q.x=-x;
50     q.y=-y;
51     return q;
52 }
53 point operator --()
54 {
55     point q;
56     q.x=x--;
57     q.y=y--;
58     return q;
59 }
60
61 point operator ++()
62 {
63     point q;
64     q.x=x++;
65     q.y=y++;
66     return q;
67 }
68
69 }
70 ;

```

```
71 ▶ int main() {↵}
90
```

Line: 30 Col: 1

SALARY

Pravindra had borrowed some money as loan from Pavneet and Kishore. They are working in the same company. The salary they are getting is not fixed. They are getting incentives, based on the targets completed, in a month. Pravindra had submitted a request in a bank to auto deduct some amount from his salary. He requested to transact Rs 500 to Pavneet's and Rs. 750 to Kishore's account every month. Print the effective salary for each person by completing the following stub.

Sample Test case Input 1:

```
68611 //salary of Pravindra
90011 //salary of Pavneet
92578 //salary of Kishore
```

Sample Test case Output 1:

```
67361 //final salary of Pravindra
90511 //final salary of Pavneet
93328 //final salary of Kishore
```

```
1 #include <iostream>
23
24 using namespace std;
25
26 class money
27 {
28     int sal;
29     public:
30     money()
31     {
32         sal=0;
33     }
34     void fix()
35     {
36         cin>>sal;
37     }
38     void fund_trans(money a,money b)
39     {
40         a.sal=a.sal+500;
41         b.sal=b.sal+750;
42         sal=sal-1250;
43         cout<<sal<<endl<<a.sal<<endl<<b.sal;
44     }
45     void show_bal()
46     {
47     }
48 };
49
50 int main()
51 {
52     money pravindra;
53     money pavneet;
54     money kishore;
55     pravindra.fix();//pravindra's salary
56     pavneet.fix();//pavneet's salary
57     kishore.fix();//kishore's salary
58     pravindra.fund_trans(pavneet,kishore);
59     pravindra.show_bal();
```


Hint: Special characters and digit are not allowed in name.

Line: 33 Col: 1

Submit code & Continue

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SWAP NUMBERS

Shekhar wants to swap two objects, one each of class ONE and of class TWO. Both the classes have two private integer data members.

Input:
10 20
30 40

output:
30 40
10 20

24

using namespace std;

25

class two;

26

class one

27

{

28

int a,b;

29

public:

30

void input()

31

{

32

cin>>a>>b;

33

}

34

void interchange(two q);

35

void display()

36

{

37

}

38

}

39

};

40

class two

41

{

42

int x,y;

43

public:

44

void input1()

45

{

46

cin>>x>>y;

47

}

48

// void interchange

49

friend void one::interchange(two q);

50

void display1()

51

{

52

}

53

}

54

};

55

void one::interchange(two q)

56

{

57

int e,r;

58

e=a;

59

a=q.x;

60

q.x=e;

61

// cout<<q.y<<" "<<b<<endl;

62

r=b;

63

b=q.y;

64

q.y=r;

65

66

cout<<a<<" "<<b;

67

cout<<endl<<q.x<<" "<<q.y;

68

69

}

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☆ DISTANCES

Create two classes DM and DB which stores the value of distances.
DM stores distance in meters and DB stores distance in feet.
Write a program that can read values for the class objects and add
one object of DM with another object of DB.
Use a friend function to add the meters and feets.
Output should be in meters. (1 feet= 0.305 meters)
Sample Input:
2 //distance in meters
2 //distance in feets
Sample Output:
2.61 //addition of the distance in meters

Original code

C++

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```
1 #include <iostream>
23
24 using namespace std;
25
26 class DB;
27 class DM
28 {
29     float met;
30     public:
31     void getdata()
32     {
33         cin>>met;
34     }
35     friend DM add(DM a,DB b);
36     void putdata()
37     {
38         cout<<met;
39     }
40 };
41 class DB
42 {
43     float feet;
44     public:
45     void getdata()
46     {
47         cin>>feet;
48     }
49     friend DM add(DM a,DB b);
50 };
51
52 DM add(DM a,DB b)
53 {
54     a.met=(b.feet*.305)+a.met;
55     return a;
56 }
57
58
59 int main()
60 {
61     DM p,q;
62     DB r;
63     p.getdata();
64     r.getdata();
```

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36     void putdata()
37     {
38         cout<<met;
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40 };
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43     float feet;
44     public:
45     void getdata()
46     {
47         cin>>feet;
48     }
49     friend DM add(DM a,DB b);
50 };
51
52 DM add(DM a,DB b)
53 {
54     a.met=(b.feet*.305)+a.met;
55     return a;
56 }
57
58
59 int main()
60 {
61     DM p,q;
62     DB r;
63     p.getdata();
64     r.getdata();
```

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