
Basic C++

Cấu trúc chương trình

```
1  #include <bits/stdc++.h>
2  using namespace std;
3
4  double p, q;
5  int n;
6  float m;
7
8  int main() {
9      cin >> p >> q;
10     cout << p / q << endl;
11     return 0;
12 }
```

Khai báo thư viện

Khai báo biến toàn cục, khai báo hàm

Hàm chính

Cấu trúc chương trình

```
1  #include <bits/stdc++.h>
2  using namespace std;
```

<bits/stdc++.h> in C++ It is basically a header file that includes every standard library. In programming contests, using this file is a good idea, when you want to reduce the time wasted in doing chores; especially when your rank is time sensitive. 13 thg 6, 2022



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<https://www.geeksforgeeks.org> › bits/stdc-h-c

<bits/stdc++.h> in C++ - GeeksforGeeks

Operator

- +
- -
- *
- /
- %

- +=
- -=
- *=
- /=
- %=

```
a = a + 2;  
a = a - 2;  
a = a * 2;  
a = a / 2;  
a = a % 2;
```

```
a += 2;  
a -= 2;  
a *= 2;  
a /= 2;  
a %= 2;
```

Operator

- ++
- --

```
a++;  
a--;  
++a;  
--a;
```

- `a++;` <-> `++a;` <-> `a+=1;`
- `c = a++ + ++b;`
- `c = a; a++; ++b; c = c+b;`

Operator

- ++
- --

```
a++;  
a--;  
++a;  
--a;
```

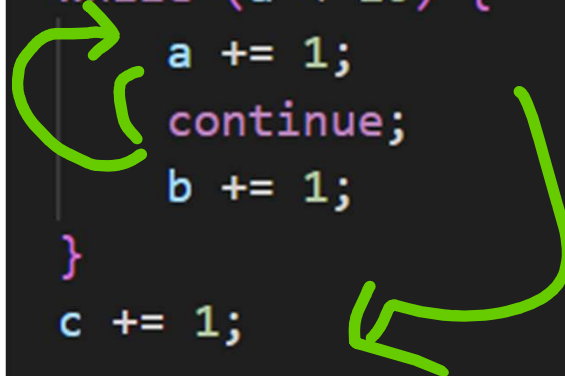
```
int a=11, b=22, c=0;
```

```
c = a + b + a++ + b++ + ++a + ++b;
```

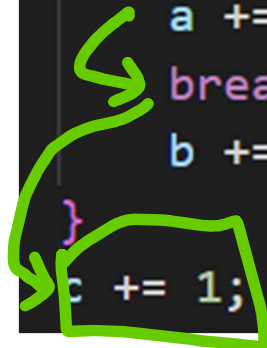
[c = 11 + 22 + 11 + 22 + 13 + 24]

continue, break

```
int a = 0, b = 0, c = 0;
while (a < 10) {
    a += 1;
    continue;
    b += 1;
}
c += 1;
```



```
int a = 0, b = 0, c = 0;
while (a < 10) {
    a += 1;
    break;
    b += 1;
}
c += 1;
```



continue, breakf

What will be the output of the following C code?

```
#include <stdio.h>
int main()
{
    int a = 0, i = 0, b;
    for (i = 0; i < 5; i++)
    {
        a++;
        continue;
    }
}
```

a = 5

b = (whatever it is initialized)

What will be the output of the following C code?

```
#include <stdio.h>
void main()
{
    int i = 0, j = 0;
    for (i = 0; i < 5; i++)
    {
        for (j = 0; j < 4; j++)
        {
            if (i > 1)
                break;
        }
        printf("Hi \n");
    }
}
```

Hi
Hi
Hi
Hi
Hi