

# Sep 1, 2018

```

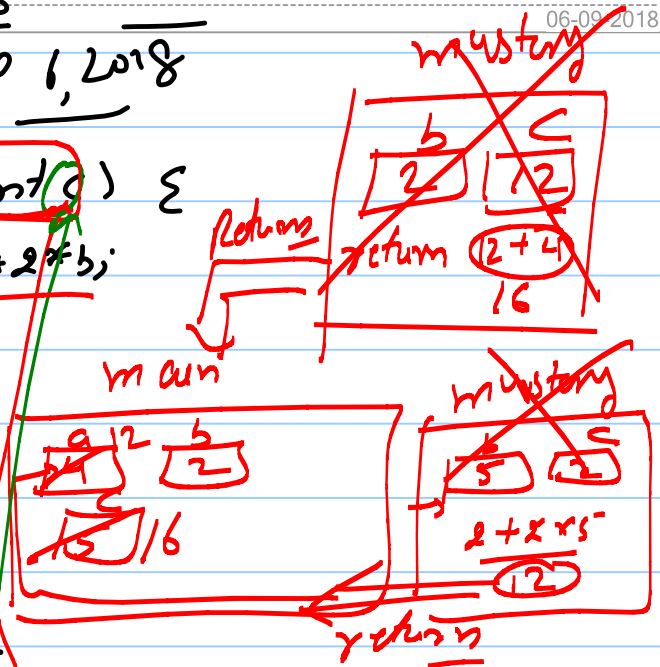
int mystery(int b, int c) {
    return c + 2 * b;
}

```

```

int main() {
    int a = 4;
    int b = 2;
    int c = 5;
    a = mystery(c, b);
    c = mystery(b, a);
    cout << "a << " << b << " " << c << " " << c << endl;
    return 0;
}

```



```
void mystery(int &b, int c, int &a)
```

```
{
```

```
    a++;
```

```
    b--;
```

```
    c += a;
```

```
}
```

```
int main() {
```

```
    int a = 5;
```

```
    int b = 2;
```

```
    int c = 8;
```

```
    mystery(c, a, b);
```

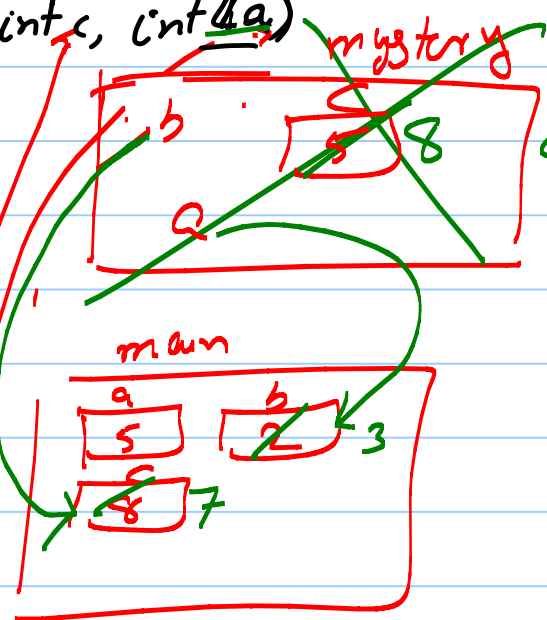
```
    cout << a << " " << b << " " << c << endl;
```

```
    return 0;
```

5

3

7



c = c + a  
 ↓ ↓  
 5 2  
 3

1 #include <math>

3.7

4

int y = round(abs(-3.7));

Assignment 7. (0?) :- -

$$\frac{1}{\pi} = \frac{\sqrt{8}}{9801}$$

$$\sum_{n=0}^{\infty} \frac{(4n)!}{(n!)^4}$$

double a = sqrt(8)

5

pow(a, b)  
long double

$a^b$  32.768

$$\begin{array}{r} 32,000 \\ 32,768 \\ \hline \end{array}$$

16 bit

long long int a = 10;

$-(2^{15})$  to  $(2^{15}-1)$

$$\times \frac{(26390n + 1103)}{(396)^{4n}}$$

gmath?

cmath

$$\left( \frac{2^h - 1}{2} \right) (2^{h-1})$$

$2^{h-1}$   
 $-(2^{h-1})$

```
# include <iostream>
# include <string>
```

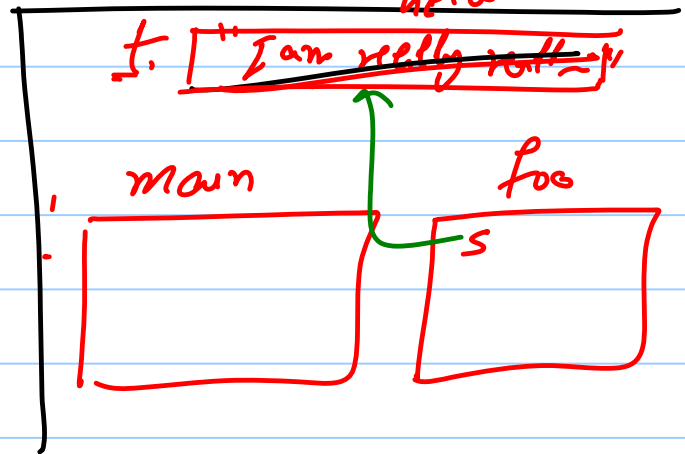
string  $t = \text{'I am really really long string'}$

```
void foo (const string &s) {
    s = "hello";
    cout << s << endl; // hello
}
```

3

```
int main() {
    foo(t);
    return 0;
}
```

3

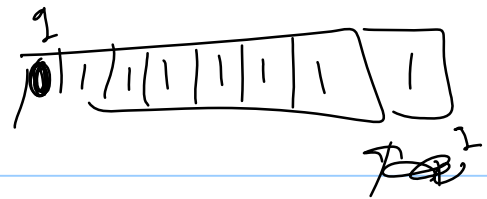


$\Sigma$  int  $n=0$ ;

~~for (int i=0; i<n; i++)~~

while (true) {

sign



↓

3

n++;  
cout << n;

0  
1  
2

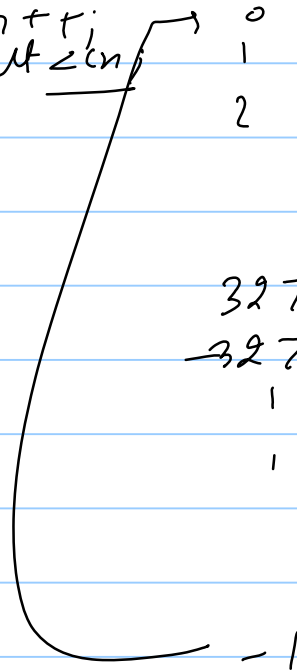
↓

2's complement

3

32767  
-32768  
1  
1

pow(396, 4n);



-1

Strings:-

string str = "hello";

append( s )

capacity( )

length, size

substr(index, len)

· find

insert(index, str)

replace(index, len, str)

str[i]

str.at(i)

str[2] = 'p'; — str → h p t l o

str.at(1) = 'p'; ✓

↑    ↑  
[0]   [4]  
0 -- 4

# include "string.h".

string str = "COL 100";

(1) endsWith(str, suffix) // endsWith(str, "100") {  
    starts with (str, suffix) }  
    // cout << "come inside"  
    // < endl;

member functions

(2) integerToString(int)  
realToString(double)

string str1 = str.substr(2);  
cout << str1;

string s = string("hello") + string(" world");

← s.c\_str()

C - string

"hello"  
0 1 2 3 4 5

~~cout << "hello" + " world";~~

C++ string // OL 100.

string s = "hello";  
string s = "there";  
s = s + s1;