



LIVE

# Online Class

printf ( “Hello World” ) ;

## Kowshique Roy

Studying MSc in Computer Science (PMSCS) at

Jahangirnagar University



Whatsapp: 01765236683

Mail: [kowshiqueroy@gmail.com](mailto:kowshiqueroy@gmail.com)

Youtube: Dadar Class দাদার ক্লাস

# Types of Variable

Local  
Global

# Define — Constant

# Pointer



variableName ;

myCountry ;

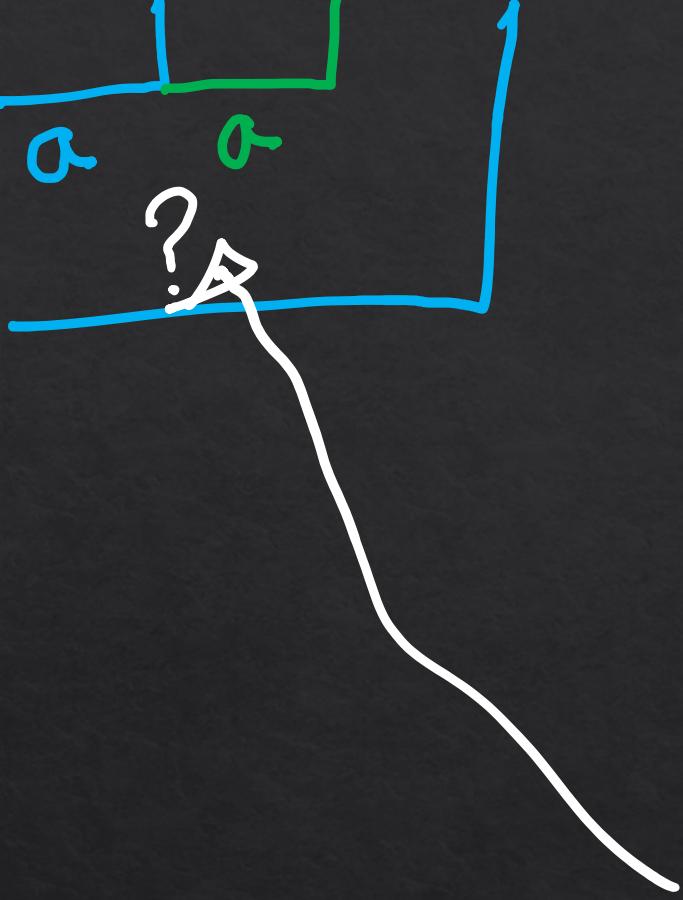
मेरा देश

firstNumber

एक

First\_Number

Type  
one word  
convention



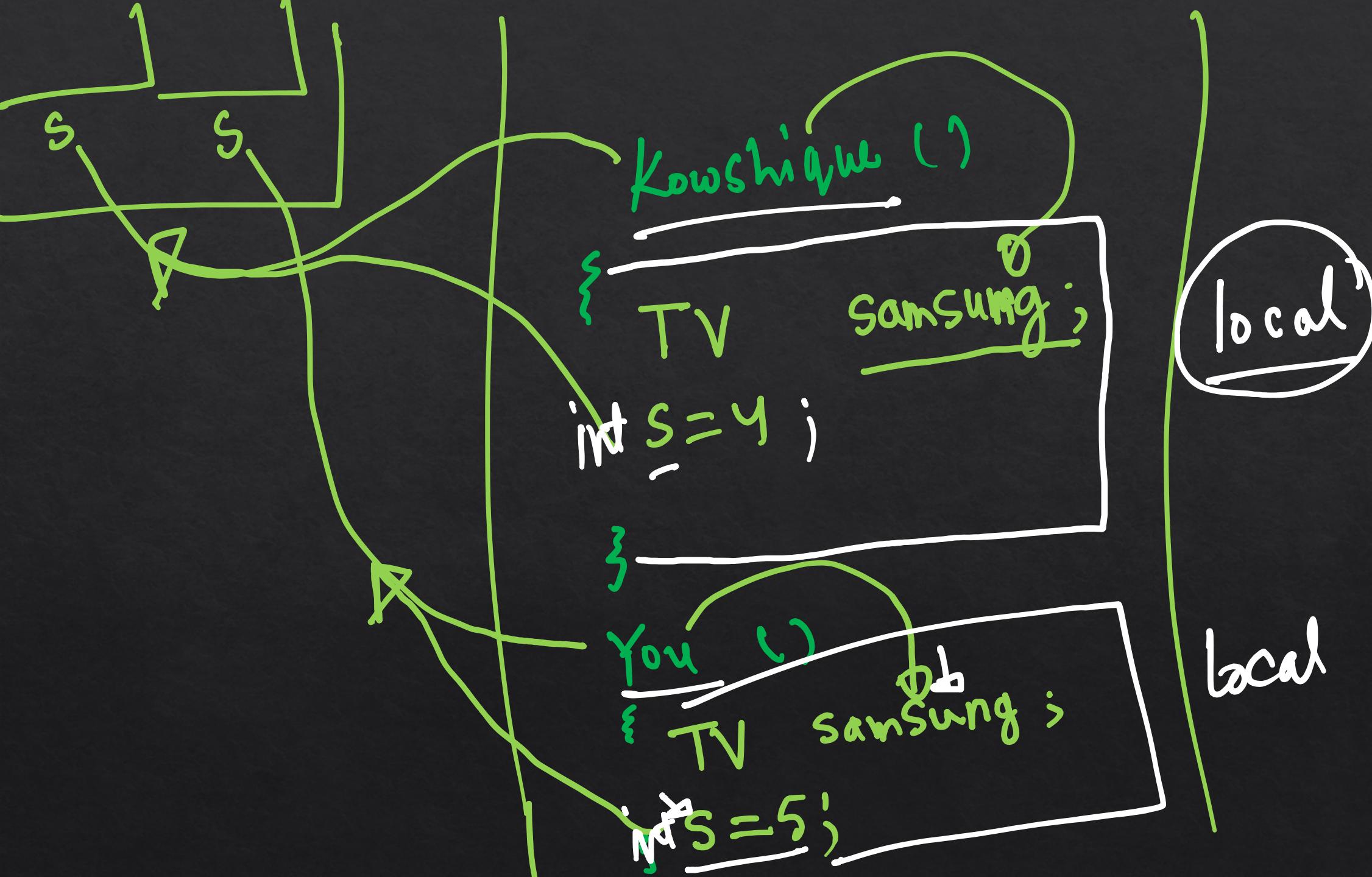
```
void f ()  
{ int a; }  
int a;  
{ a=5; }
```

গোবিন্দ ডেলার  
কতোভাবে?  
না

```
void f1 ()  
{ int a;
```

```
}  
void f2 ()  
{ int a;
```

```
}
```



```
#include <stdio.h>
Void main ()
{
    int a; // local variable
    add ();
    printf("%d", b); // error
}
```

int b = 5; — সার্টিফ

local variable ? সর্ট

```
Void add ()
{
    int b; // local variable
    printf("%d", a);
    printf("%d", b);
}
```

Access  
a স্পৃহণপ্রাপ্তি

রেজন্স  
প্রতিক্রিয়া

Local variable

# —————

void f1 ()

{ int a; } *পরিচয়*

void f2 ()

{ int a; } *পরিচয়*

3

# —————

int a;

void f1 ()

void f2 ()

3

global variable

← *a একটি*

← *a একটি*

#

Const int a=5;

void f1()

{ a=5; X  
a=6; X

}

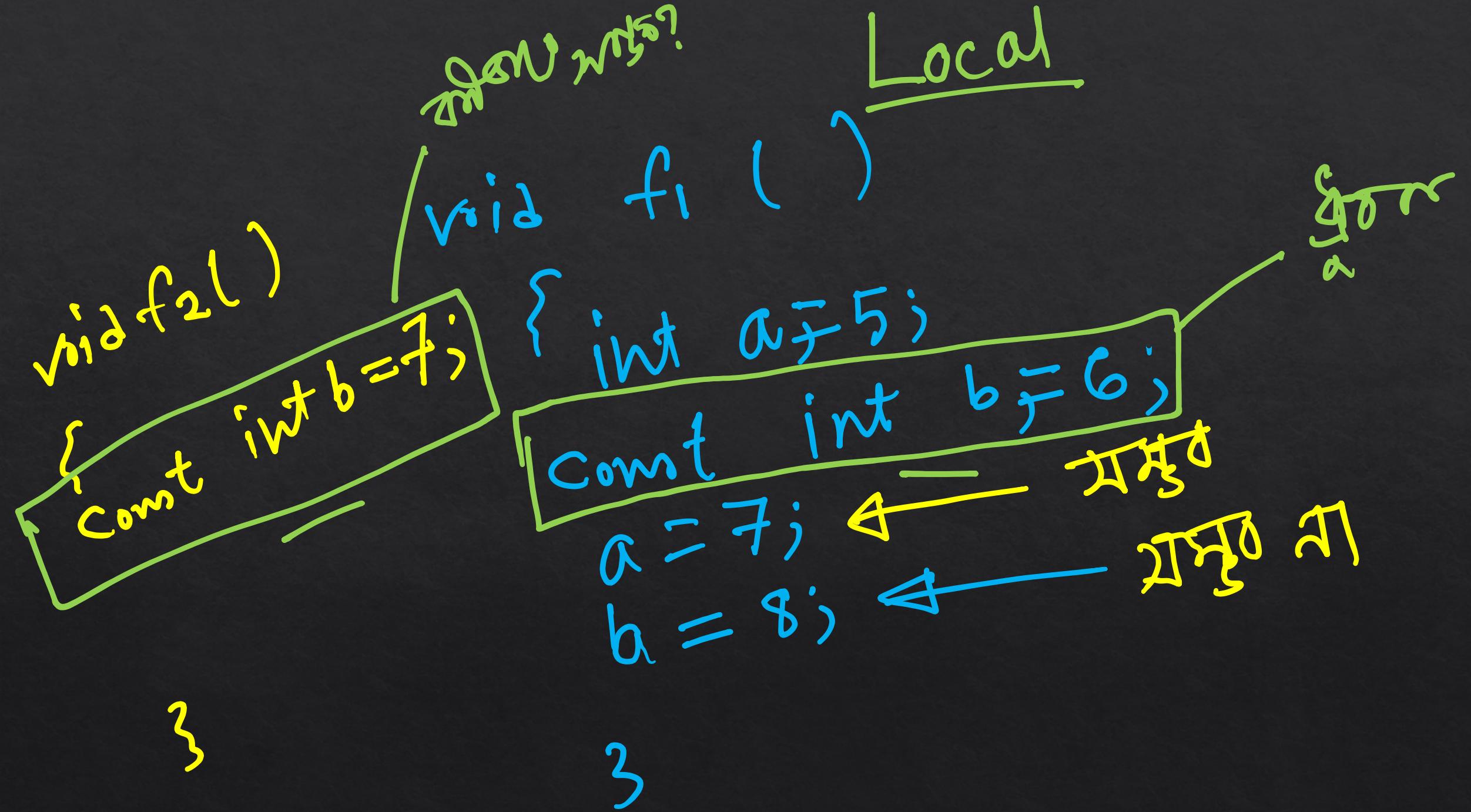
Void f2()

{ a=7; X

}

Global

Change कर सकते हैं



local মডুল

global

global

local মডুল

```
#define void { printf("%d", a); }
```

#  
const int b = 5;

fix Variable

বাহ্য

৫টি মডুল  
৫ এক্সপ

void abc()

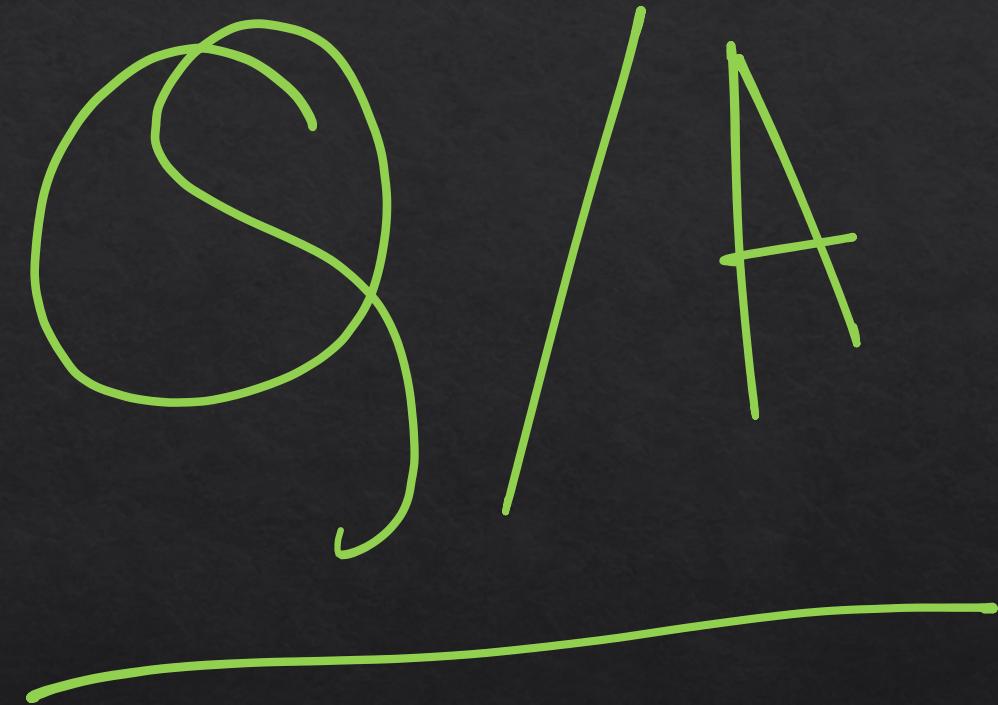
f2()

int ab = a + 2;

5

local মডুল

local  
Global  
Const  
Define



$\Rightarrow \#define \pi$  3.1416 ← 4 byte?  
0 byte

2 下 10

void f1()  
{ float pi = 3.1416; ← 4 byte?  
int r = 5; 4 byte  
int a = 2 \* pi \* r;  
 $\Rightarrow \int a = 2 * \frac{3.1416}{\pi} * r;$

3

# Pointer

+

বাসন্তৰ কুমাৰ

operator

অপেৰেটাৰ

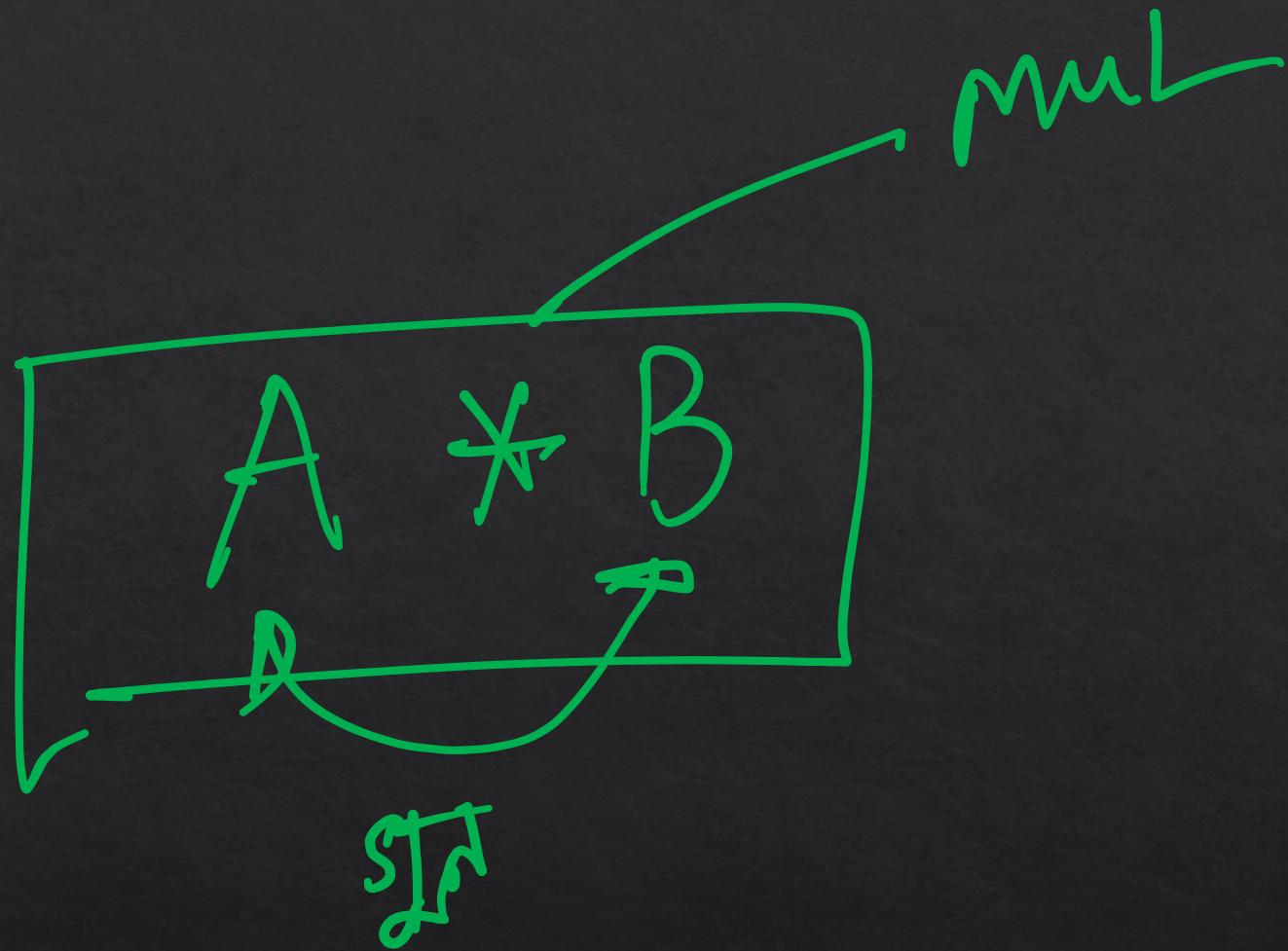
=

Assign

কো? কো? কো?

(A = B)   
 A = 5

B ≠ A



int \*a ;

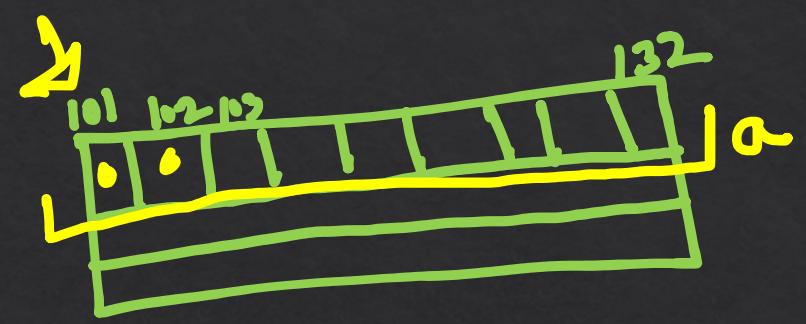
एस्ट्रा पॉइंटर  
प्रा. वा. 2<sup>nd</sup> a  
(<sup>2</sup>) int Type var  
address of

int a ;

प्रा. वा. var  
प्रा. वा. a  
Data TYPE int  
प्रा. वा. 1<sup>st</sup> a

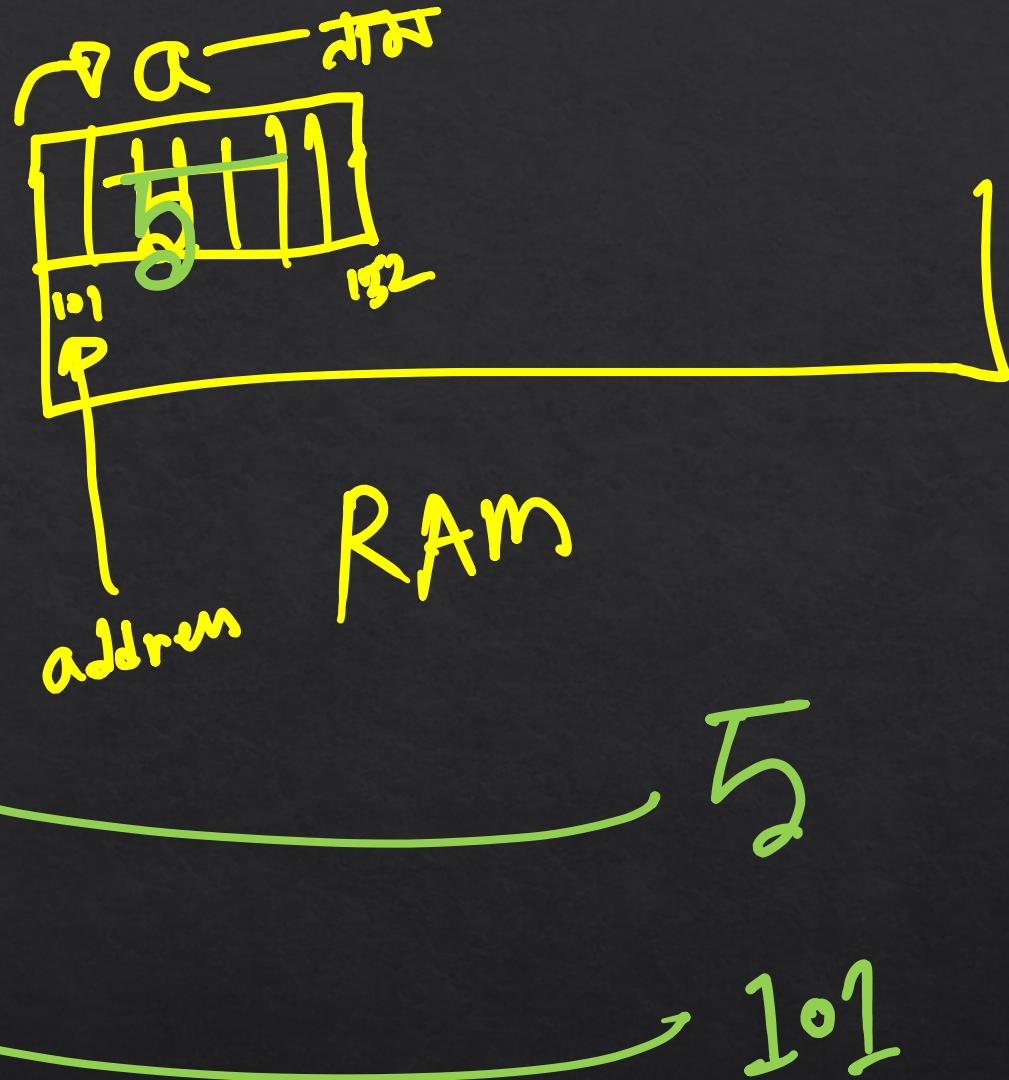
~~250~~ 250 ms  
 $a = 101$

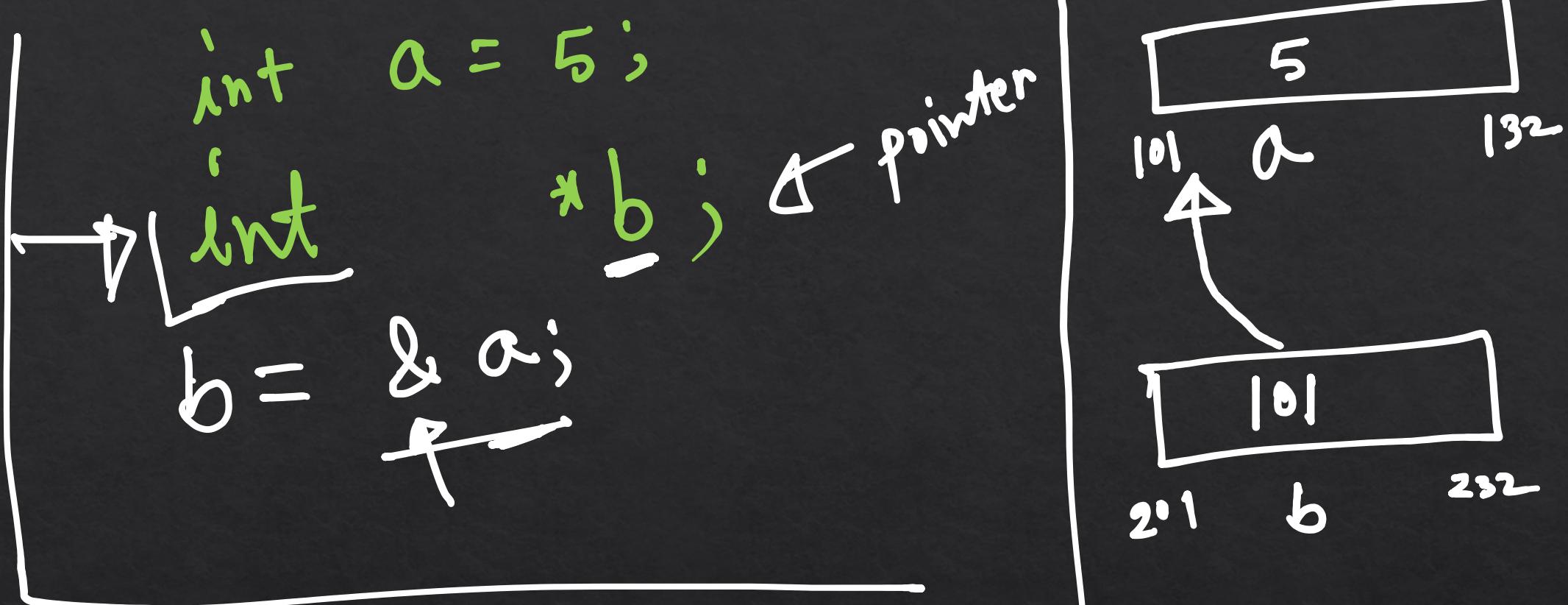
int a; 4 byte  
float b;  
 $a = 2;$   
printf("f,d", a);



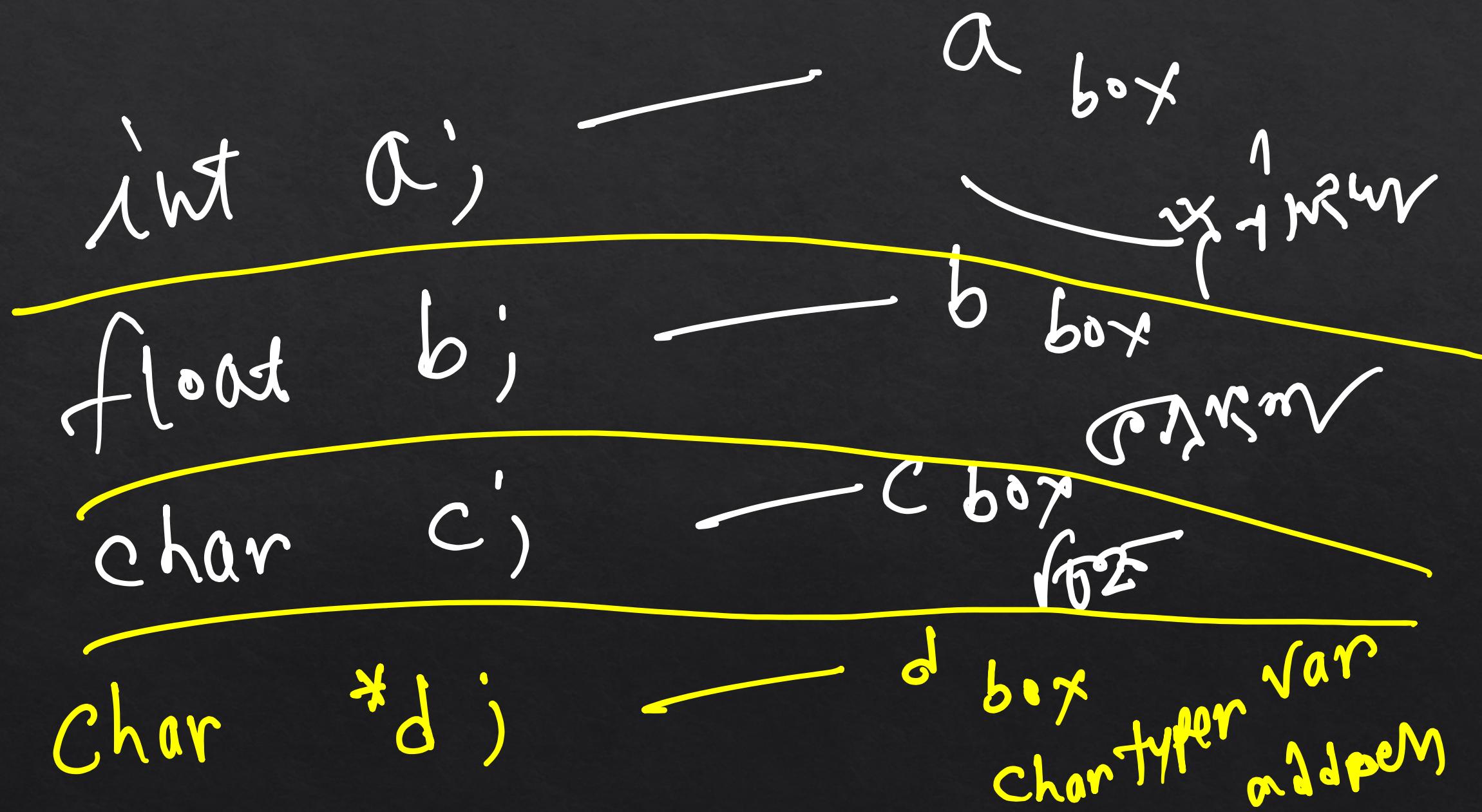
2  $\rightarrow$  dec  
2 = 10100100

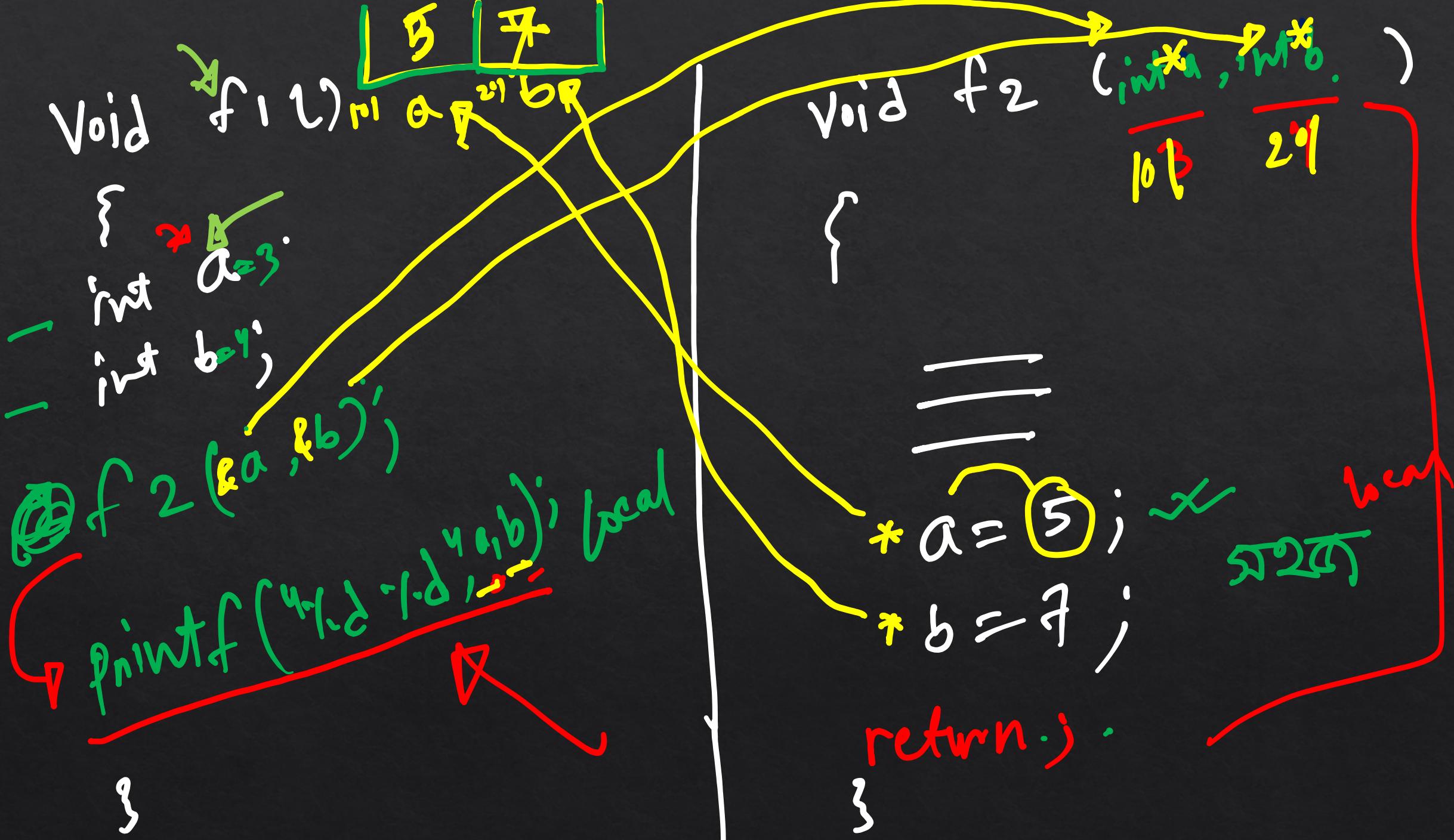
```
int a;  
a=5;  
printf("%d",a);  
printf("%d",&a);
```







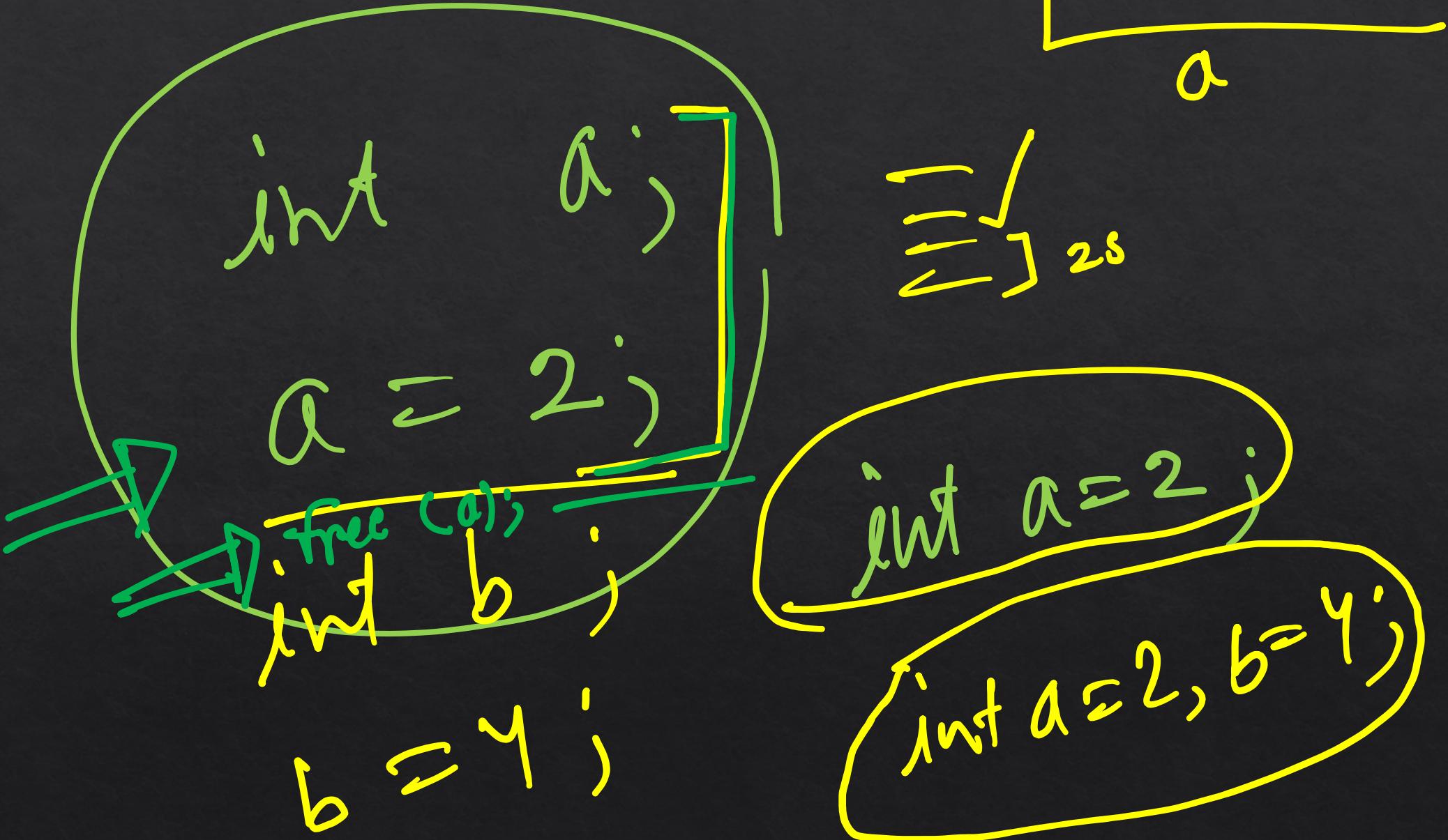




*Structured*

*Programming*

```
graph TD; A[Structured] --> B[Programming]; B --> C(( ));
```



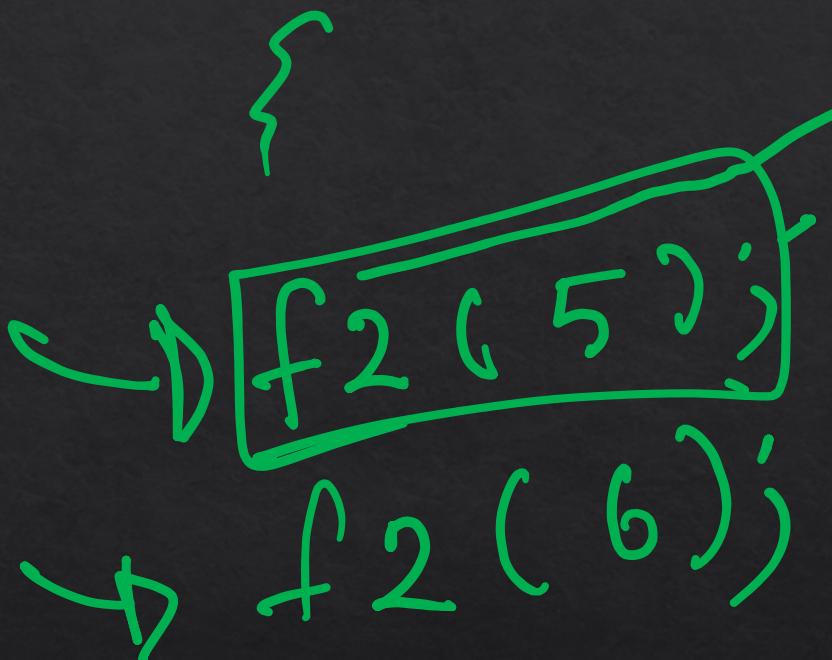
Student

# local global  
# cm define

# pointer



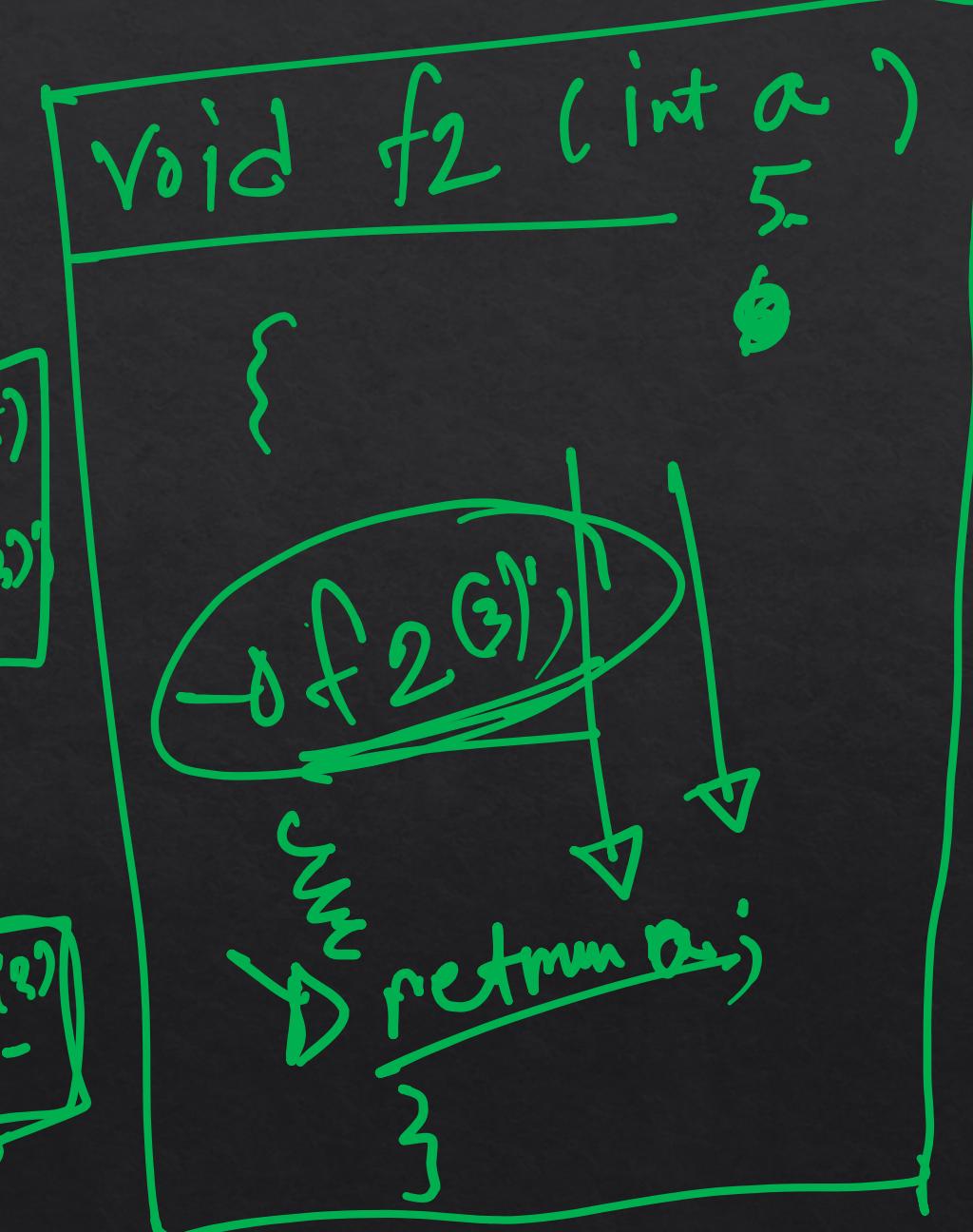
void `f1()`



`f2(6);`

3

`f2(7);`

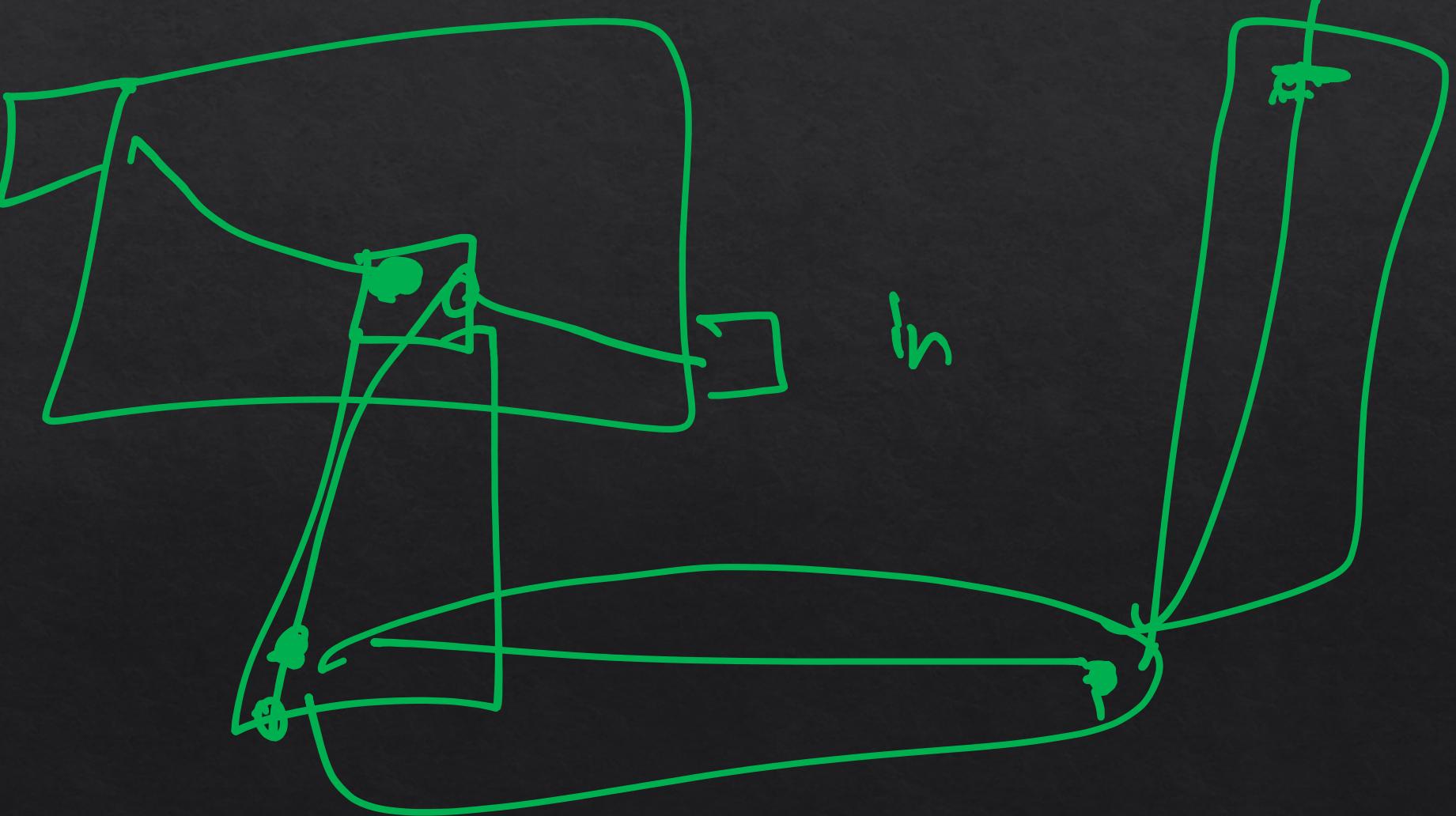


`return 0;`

out

function in - out

in



Next day

# Char Array [String]

# Struct