



# Functions and Storage Classes - Part

Comprehensive Course on C- Programming



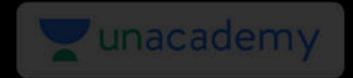
# CS & IT Engineering

C Programming

Functions & storage classes-II



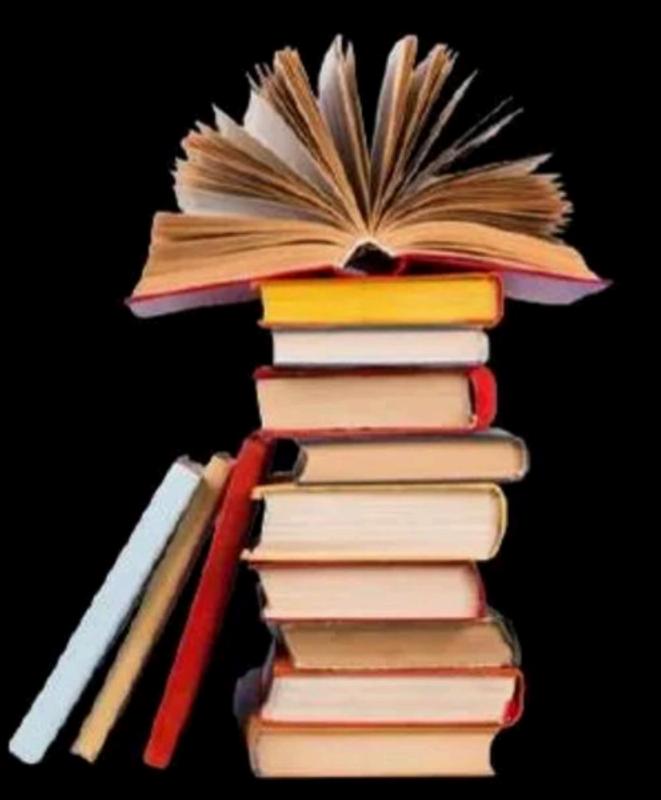
By- Pankaj Sir





## Topics

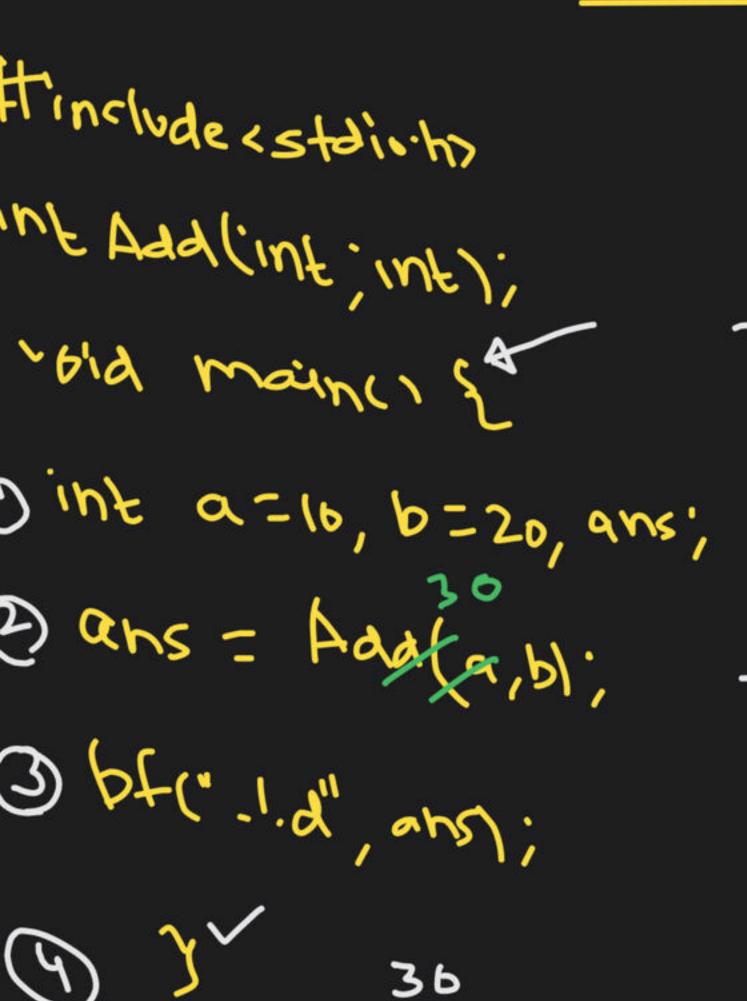
to be covered

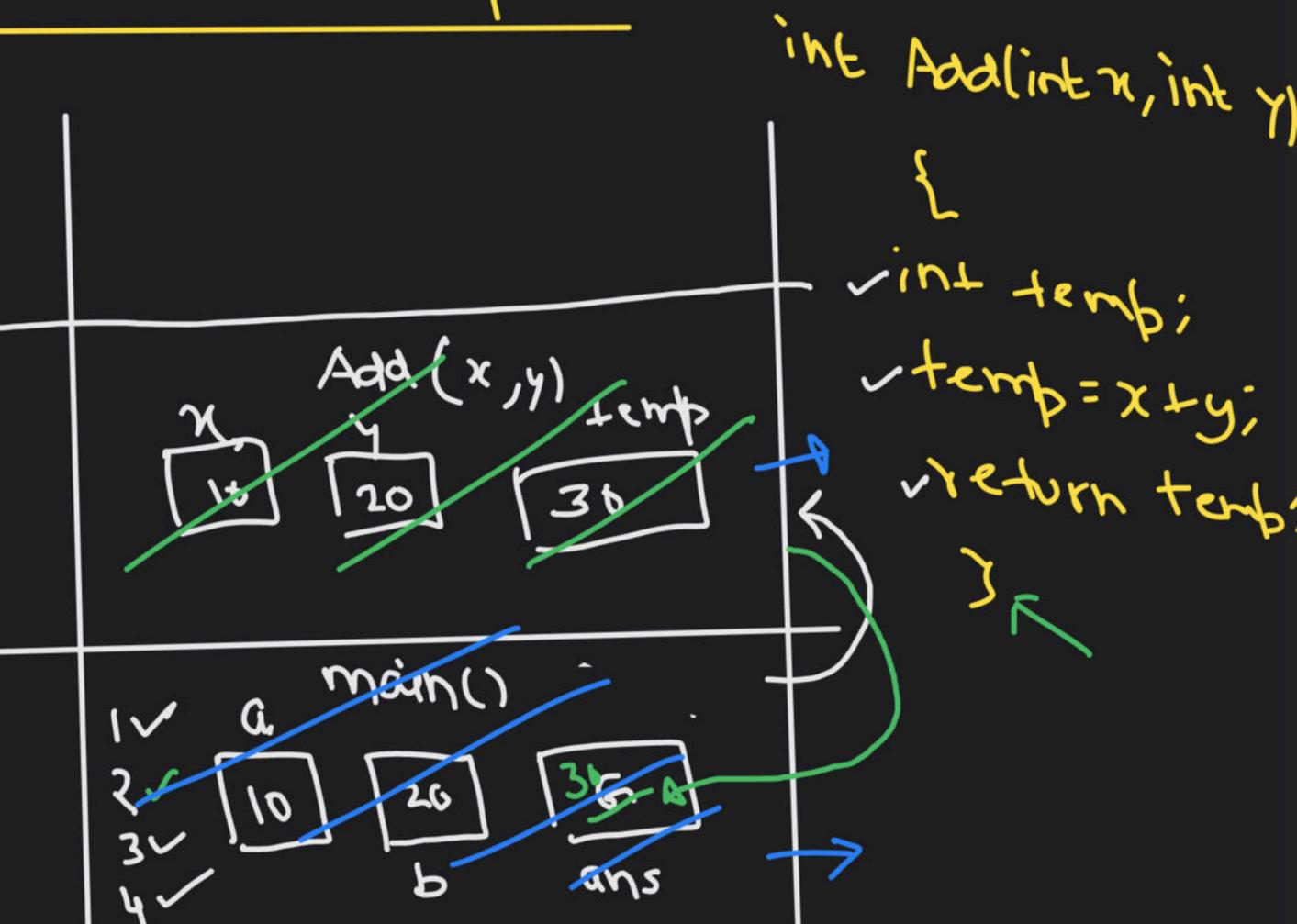


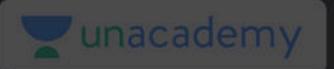
1 Functions & storage class

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## How Lunction works







A Calling Jonction Called Lonction void main! Add(int n jut y){ tornal 9hs = 1/4d(9 grønment. -> actual Grguments

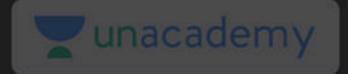
Swap # Includes stationy roix smort (int, int); void main () { Inf a= 10/p= 50; Dringf("betox swalp"); bynet ("a=.1.9'p=.1.9,'a'p); 5 map (16, 16); printf("a:1.a,b=1.d,a,b);

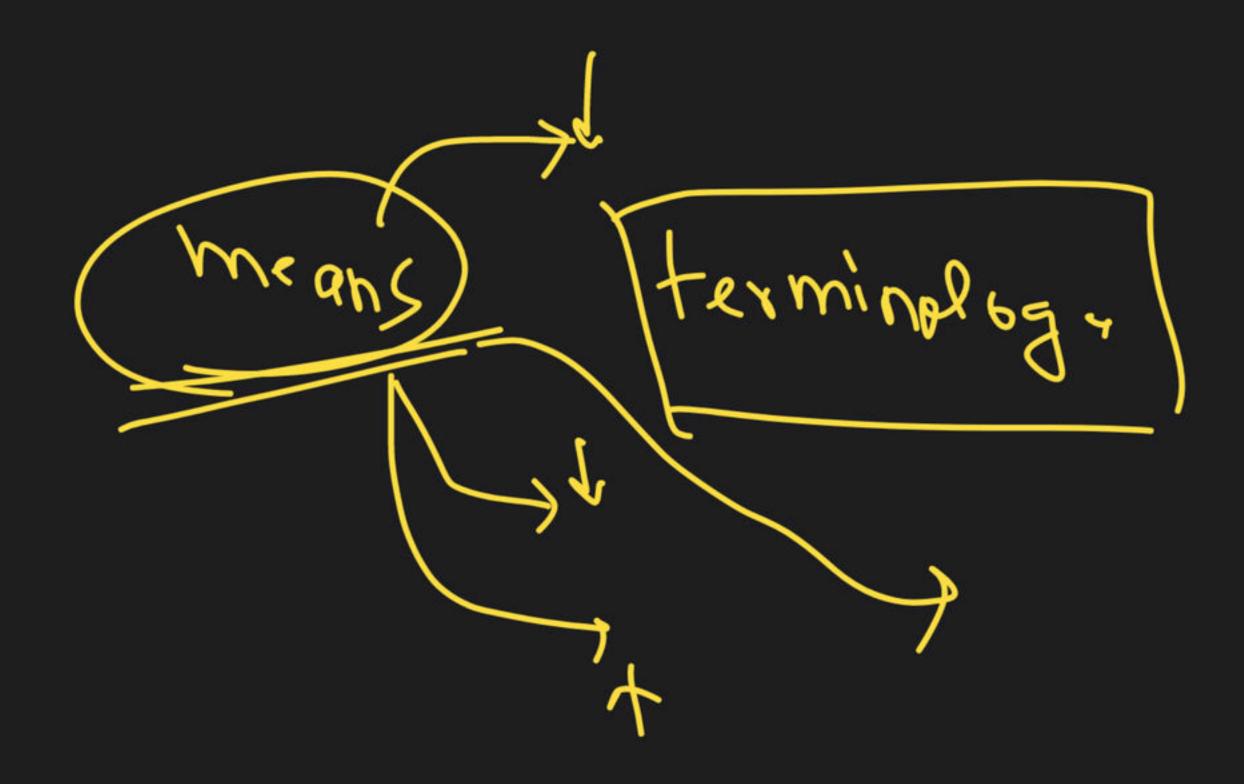
void Swap (int x, inty) int temp: 4 sup = x; y = temp;

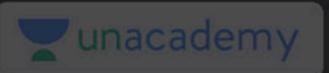


changes performed on formal arguments will not be reflected back to actual. argument. (all by value)

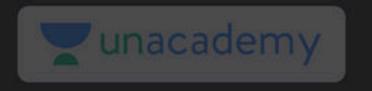
Case by refrence To Parcess







> acray archment f (9,b)



## Storage class

- (1) scope: part of code in which a variable

  1s visible (where we can directly access the var.)
- 2) Lifetime: Duration (Active) Allive)
- (3) desault value: It we don't initialize a variable then what is its desault value.
  - (4) Storage Area: Where a var. is stored.

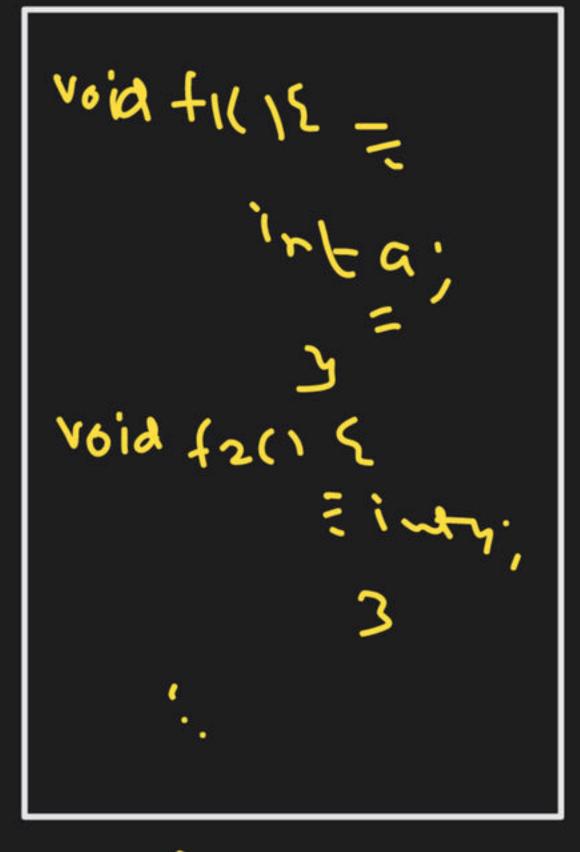
ht ("1.a" !!!)

Crypage value

(1) auro/local int Adaliut minuty #'ncludecstdio.h) int Add (int, int): void maints res = xty; Lypin Is? inf | a=10 } = 20; sow; Som = Add(9,6); main() pt ("-1.2" som). Suro

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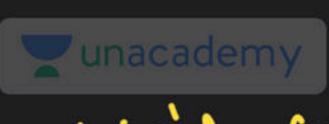




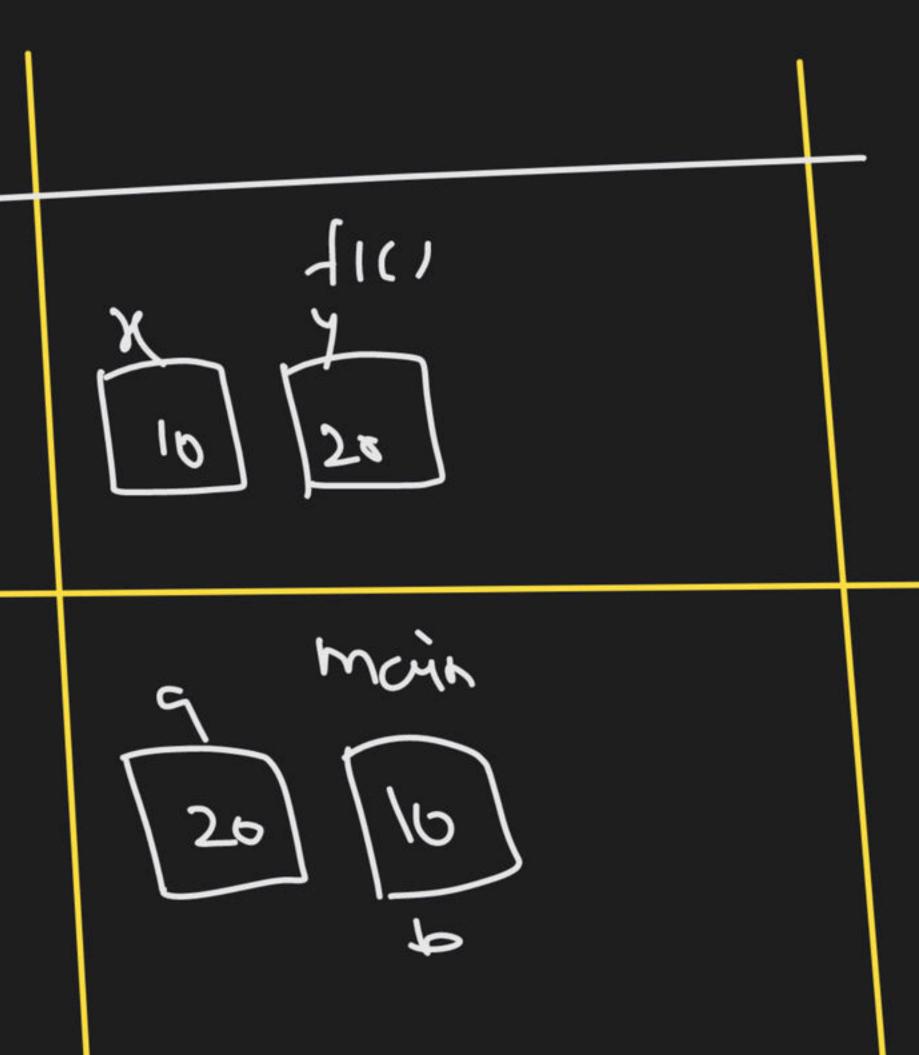
3) Moltiple Files

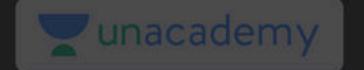
Projects

Pankaj.c

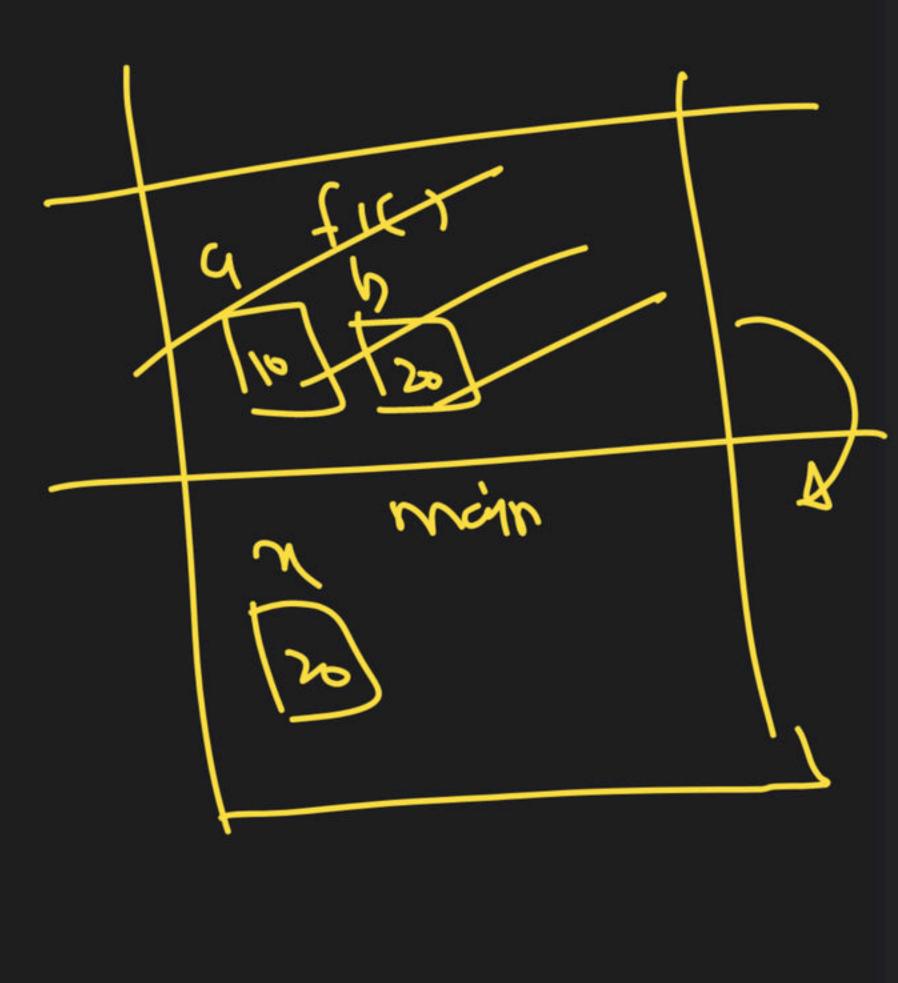


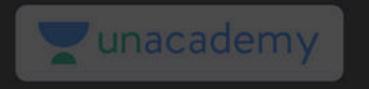
Void 11(1 { int n=10,4=20; Pf(".1.d", x +y); 3. void mainti int a= 20, b= 10; pf ("·/-d',9+6); ~





10/1 +1(1) { int a=10, b= 26; Pf ("1.2", a+ b); VOID moin 1) inf x = 50; till pf (".1.a", a+ x1;





auto

By default variable declared inside a Junction are

012

Void main() {

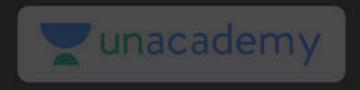
int a = 10, b = 20;

Void main() {

autolint a=10, b=20:

3

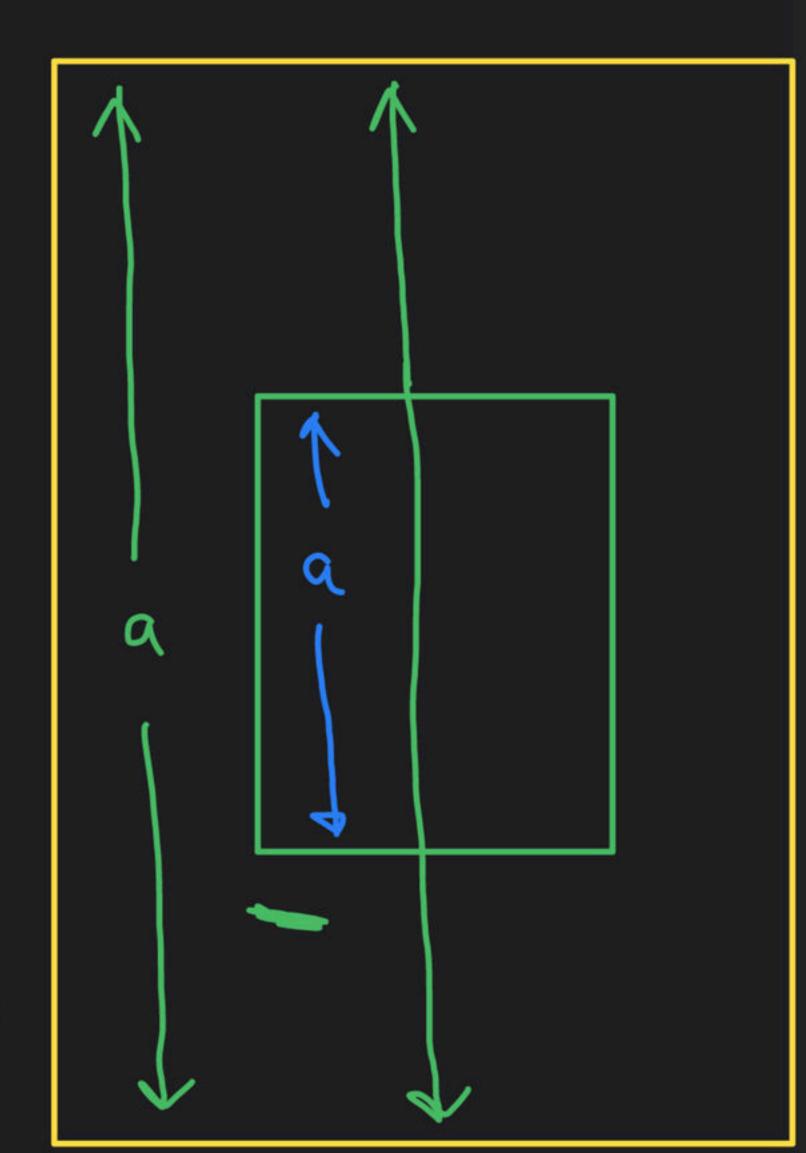
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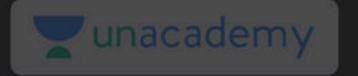


### auto

- o) scope: block in which they are defined declared 2) Lifetime: blook in which they are declared.
- 3) detant raque: Granpage.
- (9) store: stack







Paise Papa



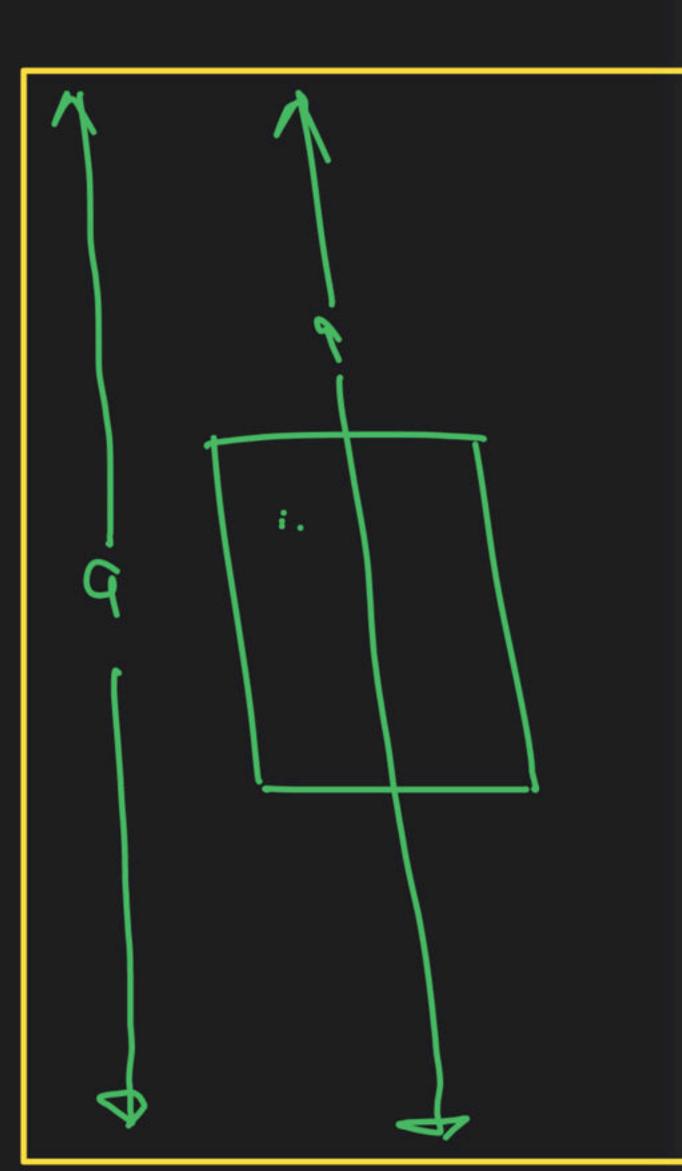
Praprix

Proph

Wold main(){

}

Void maining inf a = 10; Main \$f("-1.a", a); かも("-1み"らり;



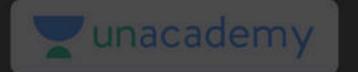
Main scope variable is accessible within sub-scope.

roid moincil int a =10; 5ub-slape b+("-1.d"A1', 1x pf(".1.a", a+b); ~ Pf("-1.2-1.2", a, b1;

2) sub-scape variables are not accessible within Main scape.

auto ? Created automatically when we enter the block in which they are declared and destructed automatically when we exit the block. fli inta; 3 6

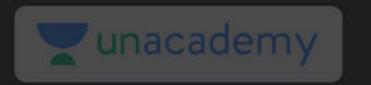
Young lamp 549CR ·1ルト るこし! Herb Area dynamic allocation uninitialized d.s infalized d.s Static Ducq Code Section



register \_\_\_\_

5th class student

(9 che Registert



register variable

Lifetime, s cope, Detault value

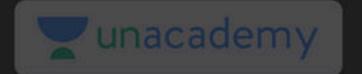
auto

\* As same as auto \* storage: CPU

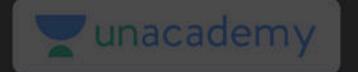
CPU régister stack

robe mair(1)

int a; > command



register int a, Yequest reject 5horage (pu register



Diamond Justby O K Seefa



DPP

Yegistex)

Static

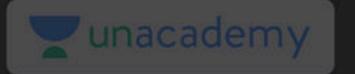
Global variable

Recursion

Jours?

AM

time (6 mp lemity



Derdober Void main() {











#### THANK YOU!

Here's to a cracking journey ahead!