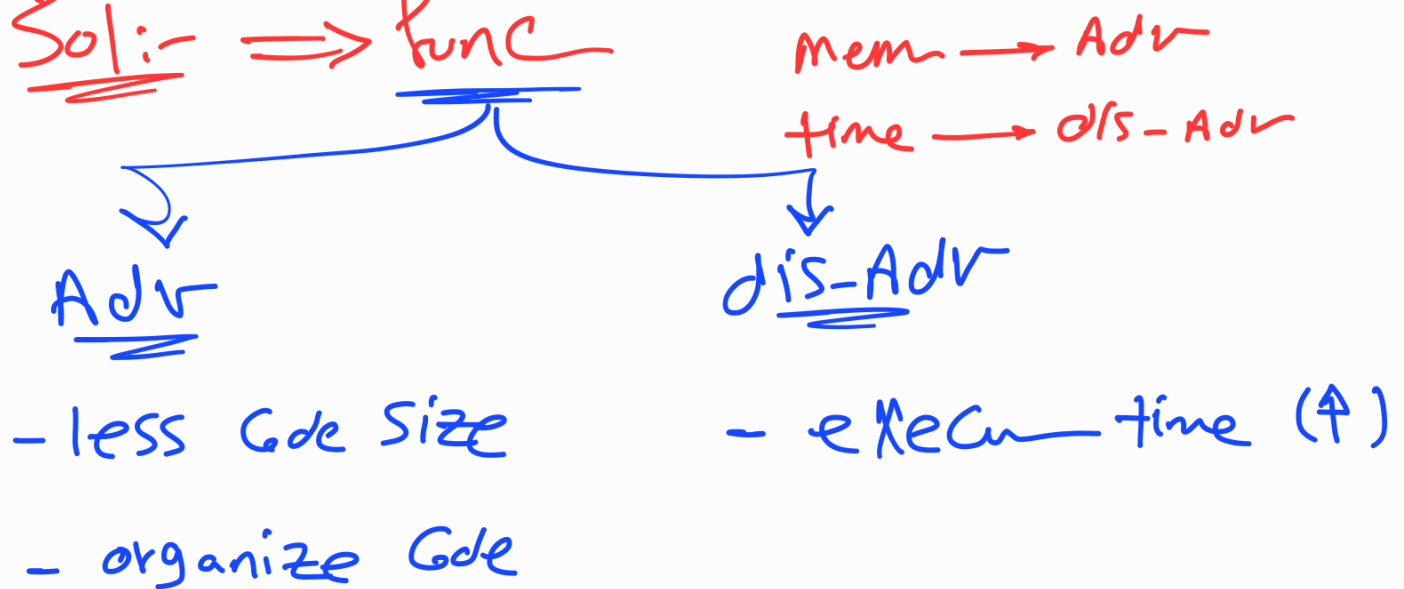


Sol:- ⇒ func



Memory VS time

✓ X

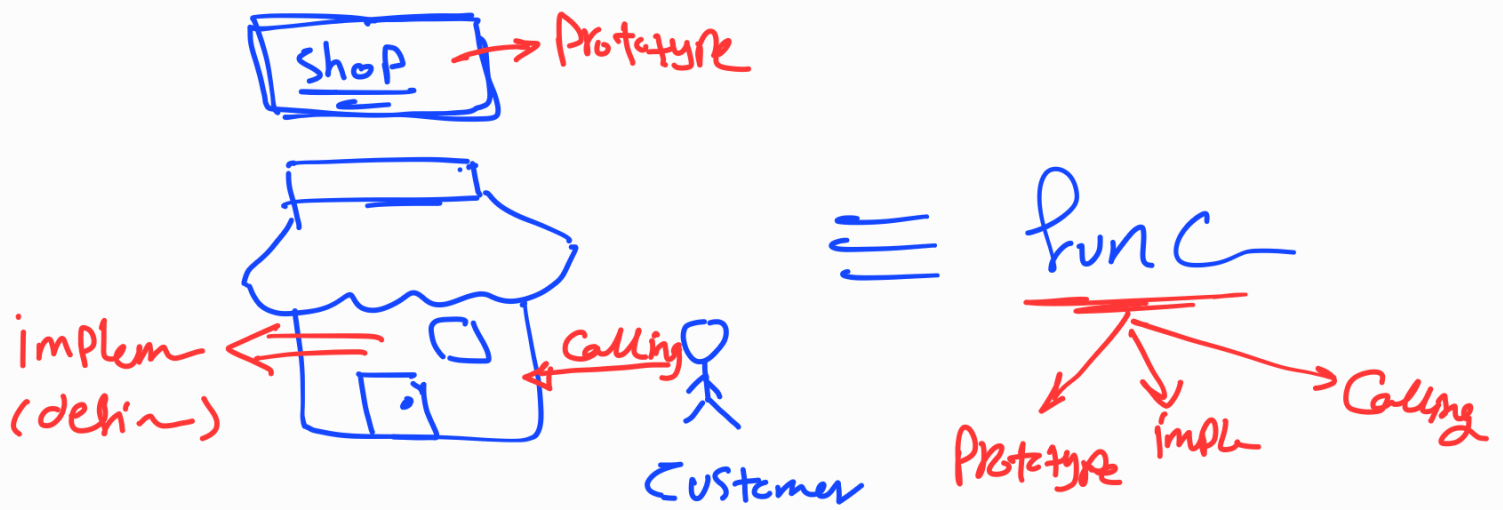
X ✓

- what?

- why?

- How?

→ example



[1] func-Prototype (declaration)

```
return_type  func_name ( argument list );
```

ex int sum (int x, int y) {

Return type  $\rightarrow$  doesn't return  $\rightarrow$  (Void)  
 $\rightarrow$  default  $\Rightarrow$  int

```
int-func () {
    _____
    _____
    _____
    _____
    ret-X
}
```

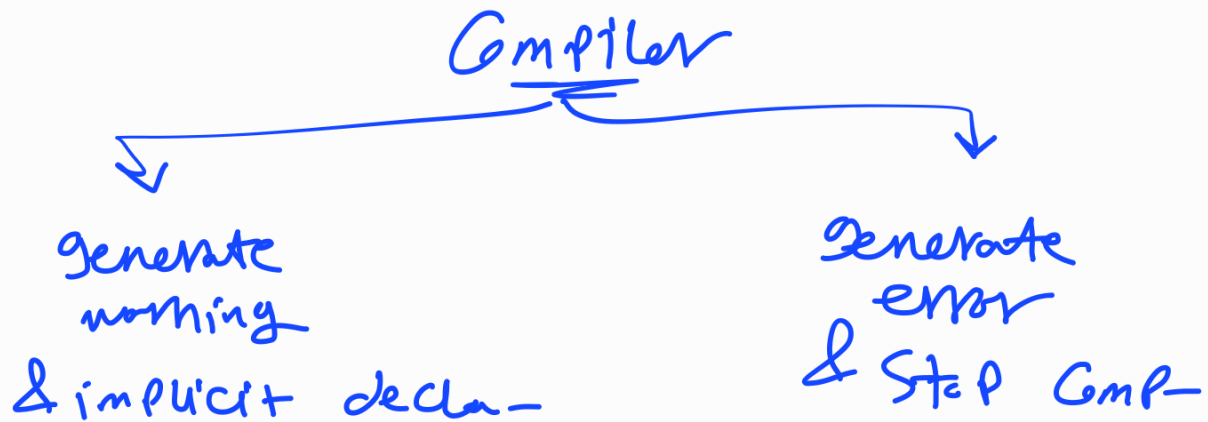
(Garbage Value)

## Hints

$\Rightarrow$  Argum  $\longrightarrow$  No  $\Rightarrow$  Void

$\Rightarrow$  Multiple def  $\Rightarrow$  error

$\Rightarrow$  No prototype



## (2) func-implen (definition)

### Syntax

return\_type func\_name (arg)

{  
    Code

$\Rightarrow$  return [ ] ;  $\Rightarrow$  return Stat-  
    }  $\Rightarrow$  un readable Code  
            un reachable Code

if ( ) {  
    return ;  
else {  
          
}

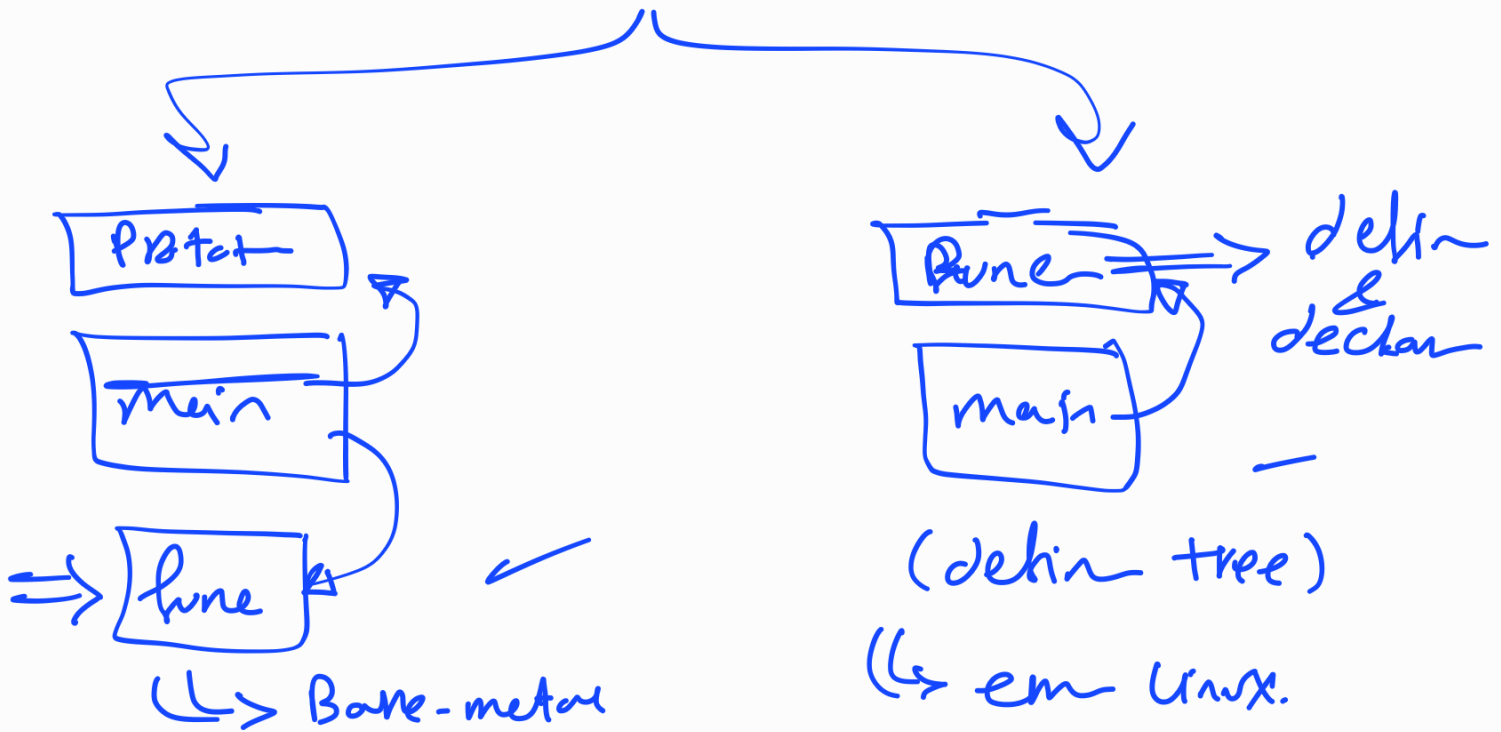
# Hint 3

⊛ func-in-ph → inside another func

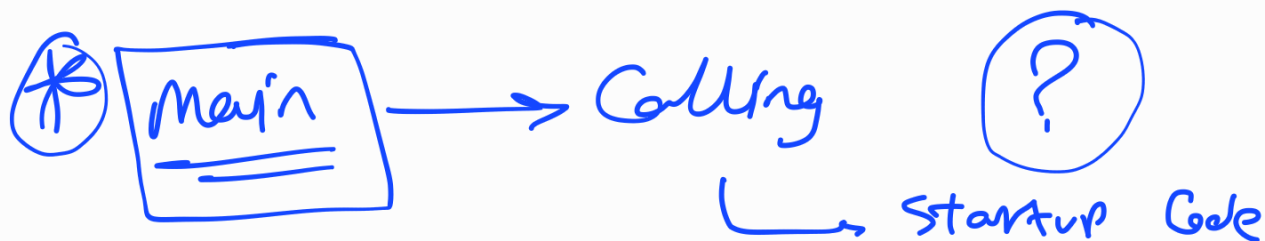
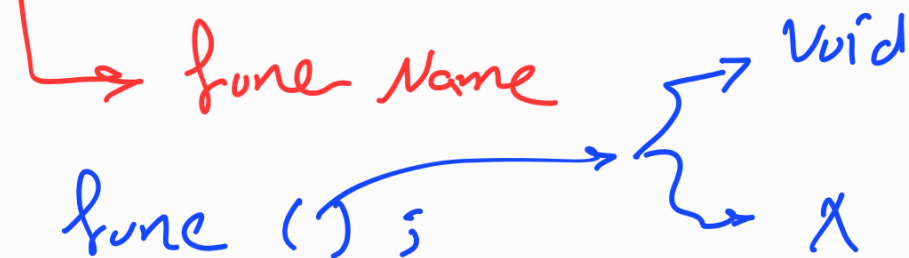
ne fun ( - ) ⇒ <sup>(X)</sup> prototype  
main<sup>\*</sup>( )

⚡ → { int x; }  
calling ⇒ func(); ⇒ calling

net → { func ( ) } ⇒ defini-  
{  
}



### [3] Calling



### \* func errors:-

① return (x) ⇒ garbage

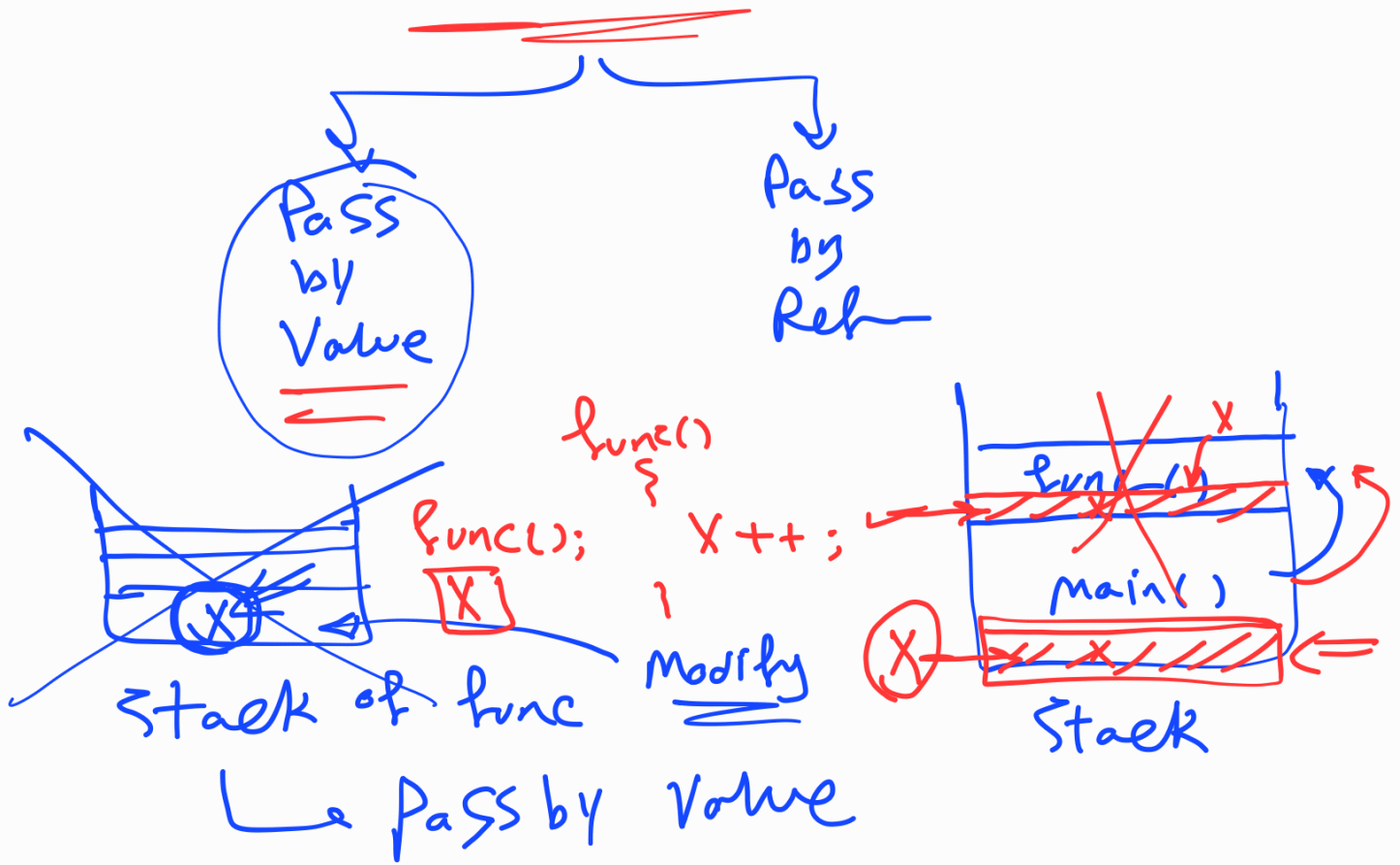
② void fun ⇒ retu (?)  
↳ compile error

③ return name (int x, y) ⇒  
int x, int y

④ return name (~~int x~~, ~~int y~~) ;  
{  
    int x ;  
}  
↳ redecl

⑤ Param → redecl  
    ↳ local var ⇒ compile error

# ⇒ Passing the Argu

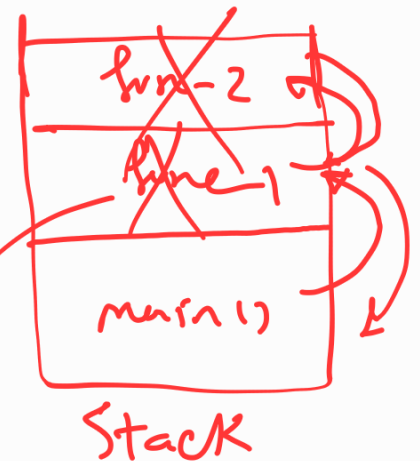


## Le Argum (Var)

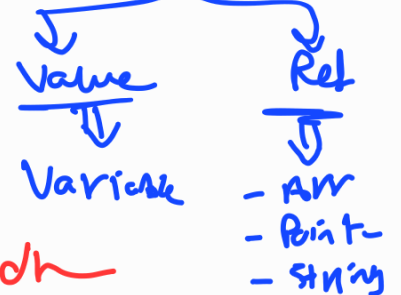
① Copy → No modify

② memory size ③ time

(Not Secure)



### Calling



Sol ⇒ Call by ref

hint

scanf("c%i", &X);