

Todas & agenda
Today's agerda by Jactobial by 1c, 2 1P- by Junctions
Jactorial
4 C 2 P2
4 Lunctions
<u>AlgoPrep</u>

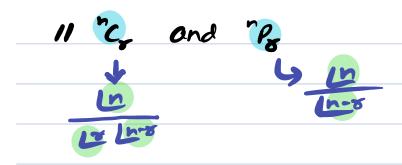


```
a) factorial
     Lo Criven N, Point Jactorial of N.
          Rui21: Jact(4): 1 # 2 # 3 # 4 = 24
        main () {
           Scanner son = new Scanner (system.in);
               int n = SchneatIntl);
             for (ind i=1; ic=n; i+)4
                 S. 04 (ars);
```

owil night

•	•	iezn	0H:6H*	nar
int ons=1; or (inti=1; i <= n; i++) < ans: ans ** is		7	an:L	·ne
o (ind i=1; i <= n; i++)4	2	T	042 2	1:8
ans: and *is	3	T	anel	







a) Given n and s, write an algorithm to Calculate res.

The Three

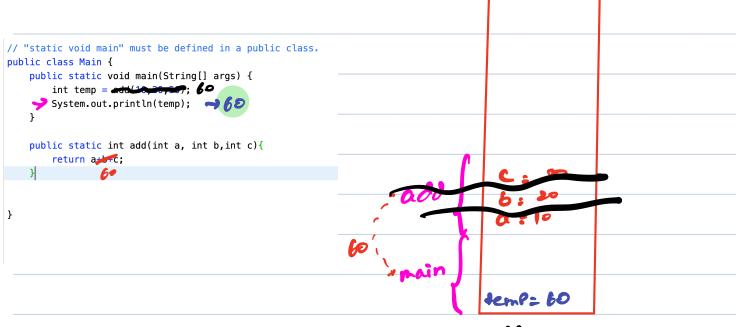
```
main () {
  Scanner son: new Scanner (systemin);
       int n = schnentIntl);
       fre o = sch neat Int ();
       int ansi = 1; > 15
    loo (ind i=1; i = n; i+) <
         ans: anskis
        int ans: 1; -> 15
      for Cins is is it it it
         int ans3:1; ~ In-15
       for (int i=1; i==n-0; i++)(

and 3 = and 3 4 i;
        int and = and (ans 2 # one 3);
            S.o.p (ans);
```



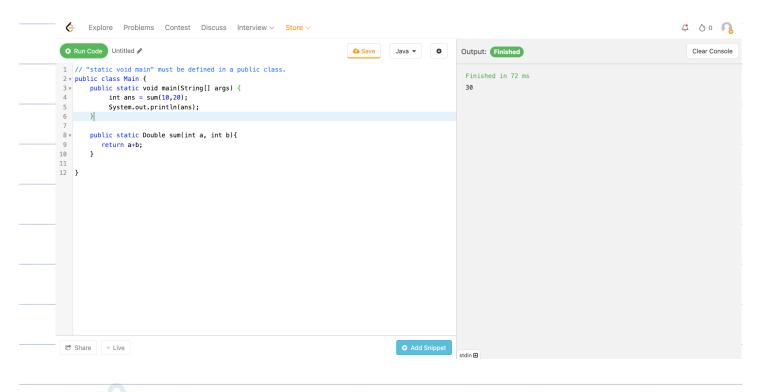
DRY: Ponot releat yourself.

Syntan: Public static int name (input)? //Stadement J i



Stock









```
main 1) {
 main () 4
   Scanner Sch : new Scanner Cystem.in);
                                                Scanner Sch : new Scanner Csystem.in);
                                                   int n = SchonendInt(); +5
       int n = Sch-neodInd(); -5
                                                   int n1 = loca(n);
S.O.p(h1);
          int ans=19
                                             3
        for (int i=1; i =n; i++) {
                                            Public Static int Jack (int n)
          an = an #10
                                                   int ans=19
                                                for (int i=1; i =n; i++) 4
          S.o.p (an);
 main 1) {
    Scanner Sch : new Scanner (system.in);
        int n = sch-next Int ();
Public Static int Jack (int n)
       int ans=1;
    for (int i=1; i =n; i++) {
```

```
Public Static int Jack (int n)X

int an=1;

Jor (int i=1; i=n; i++) {

an = an +i;
}
```



```
* Jackstal using bunction
                                            main () {
                                              Scanner Sch : new Scanner (system.in)
  main () {
                                                  int n = Sch.nextIntl);
    Scanner son : new Scanner (system.in);
                                                 int temp fact (n);
        int n = SchneatIntl);
                                                   s.o.p(temp);
        int one = 1;
       for (intiel; icen; i+)
                                     Public Static int fact (int n) {
           ans : and # is
                                           int one = 1;
                                         for (ind is 1; iden; id+) {
                                             ans : and * is
           S. 04 (ans);
```



main() {		
Scanner & ch = new Scanner	x (system.in)	
int n = Schnending	tes;	
in temp. factor	1 value	
s.o.p(temp);	727	
	. 4	
Public Static int fact (ind	loct	ONS LESS OF PER
Jos (int i=1; i = n; i+)		Le Marie
ans: and #is	<u> </u>	
	24,	Ind temperat
, setum ans;	> pain	ind n = 4
3		sche
		Pran
	1901	
Que	ak till 10:40	
	A AM 10. 48	<u></u>



```
at new using function.
```

```
main C)

Scanner Scn = new Scanner (system in);

int n = scn.nentInt();

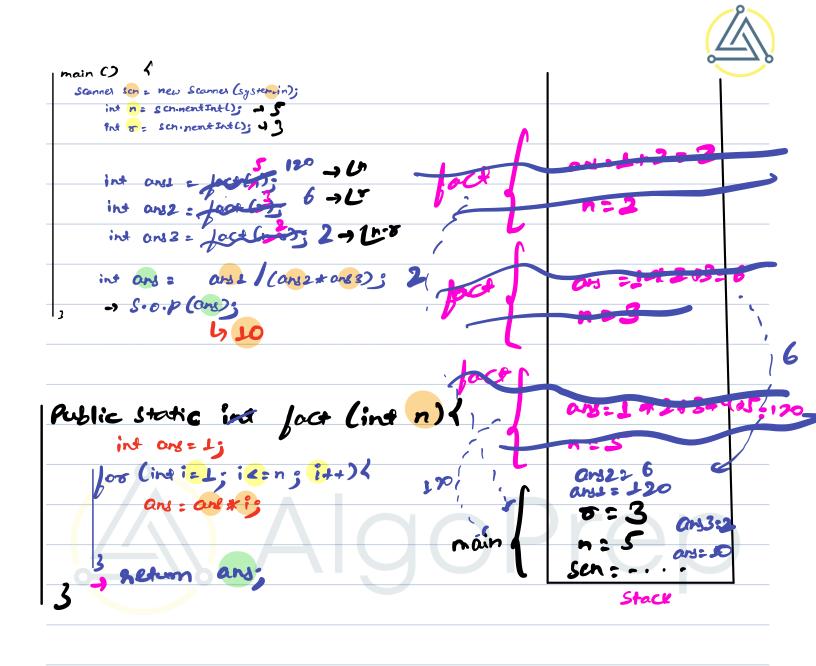
int ans1 = fact (n);

int ans2 : fact (x);

int ans3 = fact (n-x);

int ans3 = fact (n-x);
```

Public Static ins fact (inst n) { int ans=1; for (instigut; is=n; is+) { ans: ans ** is 3 ** Return ans;



-9	you	Can h	save no	type	should "	be void.



aui2 4:

Public Static void main (String [] augs) (
forduct (5,10), 50	
3	
	6-10-
Public Static int Product Cint o, int b) < product	a:S
schon axb;	
3 UNO OUTENT	

Quiz 5:

Public Static void main (String [] args) (

int and = Subtract (5,10);

System.out.printle (and);

Aublic Static void Subtract (int o, int b) <



Quiz 6:

Public Static void main (String [] augs) (
int na = culetal;
-> System, out pointly (add (3, colis)); -> 35
3 35
Aublic Static int add Cint o, int 654
seturon a+b;
ا ا
Public Static int Cube Lint a) L
seturn a*a*a;