Takes input and gue some output. functions $f(a,b) = a^2 + 2ab + b^2$ $\int (n) = \frac{2n+1}{n}$ outpet = 11 f(x) = 2x+1 output 2 × 571 = 1 "

return type

output sum (int a, int b) v

int sum = a+b;

return sum; n=3 input sum (2,3) = 5 sum (1, 4) = 5 sum (9,11) = 20 public static brown type

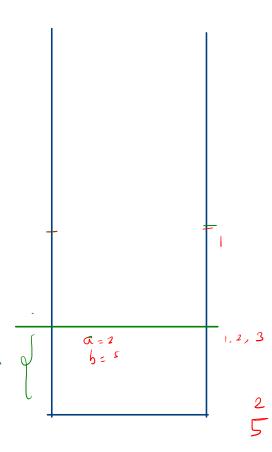
public static brown (int a) &

```
RAM
```

5/mb

```
class Main {
    public static int sum(int a, int b) {
        int sum = a + b;
        z return sum;
    }
    Run|Debug
    public static void main(String[] args) {
        vint a= 2;
        int b= 3;
        int ans = sum(a,b);
        vistem.out.println(ans);
    }
}
```

```
1 class Main {
2    public static int sum(int a, int b){
3        int sum = a + b;
4        return sum;
5    }
6
7    public static void fun(int a, int b){
8        int sum = a+b;
9        System.out.println(sum);
10
11        System.out.println("I am inside a void function");
12        System.out.println("I am inside a void function");
13     }
14
15     public static void main(String[] args) {
16        int a = 2;
17        int b = 3;
18
19        fun(a,b);
20     }
21 }
```



```
class Main {
    public static void swap(int a, int b) {
        int temp = a;
        a = b;
        b = temp;
    }
    Run | Debug
    public static void main(String[] args) {
        int a= 2;
        int b= 5;
        swap(a, b);
        System.out.println(a);
        System.out.println(b);
}
```

```
> flow to solve any recovering problem
 1) kep a faith that it works for a snaller problem (faith)
2) Solve for the smallest problem.
3) Solve for the actual problem (to reach your expedicion)
            Print develoring numbers from n' to I living receive ion.
                                                       public states Void punt Processing Lint n) &

System. out. print ln(n);

prent Develory (n-1);
                             q= 5
                                                                                             function will priest rumbers from
Justin (n-1) to 1

Justin Will rundows Justin (n-1) to 1
                                                 work
                                                 _
you won't be able to learn
necession without day-rum-
                                                            stack overflow
                                                                                    public static void printDecreasing(int n){
                                                                                        if(n==0){
                                                                                            return;
                                                                                        System.out.println(n);
                                                                                    public static void main(String[] args) {
                                                                                        printDecreasing(n);
```

fundin will print pumbers
from 1 to 1 Print numbers in increasing order using recursion. psv punt Investing (jut n) of 9t intle work for (n-1)

print rumbers from 1 to 'n-1' punt Increasing (n-1);
System. out . peunt ln (n); public static void printIncreasing(int n){ if(n==0){ return; printIncreasing(n-1); System.out.println(n); public static void main(String[] args) { int n = 🔭 printIncreasing(n);

