Revision
$$n=5$$
.

```
if(row == n){
                 //n stars
13
                 for(int cst = 1; cst <= n; cst++){
14
                     System.out.print("*");
15
16
             else{
17
                 System.out.print("*")
18
19
                 for(int csp = 1; csp \leq n-2; csp++){
20
                     System.out.print(" ");
21
                 System.out.print("*")
22
23
24
25
             System.out.println();
26
27
      }
28 }
```

int n = scn.nextInt(); // 5

Pattern 9 - Square Ladder with top and n=5 bottom



then in the second line print a star, then n-2 tabs, then print a star. then print n tab separated stars in the third line.

*

*

then in the fourth line print a star, then n-2 tabs, then print a star.

3

 \mathcal{N}

B

¥

m=5

* * * * * * --- 2 * * * * * * * --- 3 * * * * * * * --- 4 $7000 \rightarrow 0dd \rightarrow n stars$ Leen $\rightarrow 4 n-2 sp. *$

```
4 public class Solution {
      public static void main(String[] args) {
          Scanner scn = new Scanner(System.in);
          int n = scn.nextInt();
          for(int row = 1; row <= n; row++){
              if(row % 2 == 0){
                  //row is even
                 System.out.print("*\t"
                 for(int csp = 1, csp /= n-2; csp++){
                      System.out.print("\t");
                  System.out.print("*\t")
                                                               3.
                  // row is odd: n stars
                                                               γ.
                  for(int cst = 1; cst <= n; cst++){
                      System.out.print("*\t");
              System.out.println();
```

5

6

8

9

10

11 12

13

14

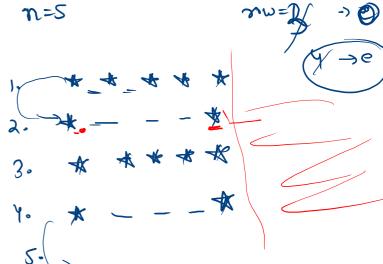
15

16 17

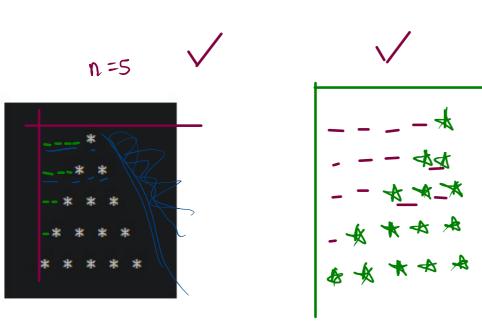
18 19 20

21 22 23

26



Pyramid



```
n=5
            Scanner scn = new Scanner(System.in);
           int n = scn.nextInt();
                                                                       star=1 x 3
space=4 x 2
10
           int star = 1;
11
           int space = n-1;
12
13
14
15
           for(int row = 1; row <= n; row++){
                for(int csp = 1; csp <= space; csp++){
16
                    System.out.print(" ");
17
18
                for(int cst = 1; cst <= star; cst++){
19
                    System.out.print("* ");
                                                                           1.
20
21
22
23
24
25
26
27
                star++;
                space--;
                System.out.println();
28 }
```

6

public static void main(String[] args) {

GKSTR29_Pattern_12_Diamond

Take Integer N as input and print the following pattern.



Input Format

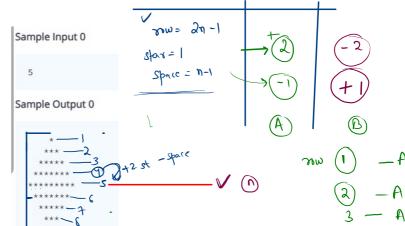
An integer Value N

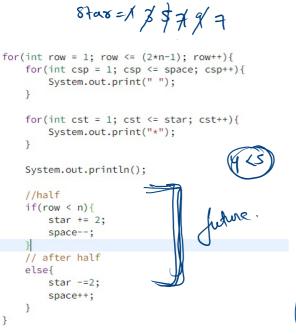
Constraints

1 <= N <= 100

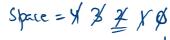
Output Format

((2*N)-1) Line of Pattern as shown in problem statement.











fun

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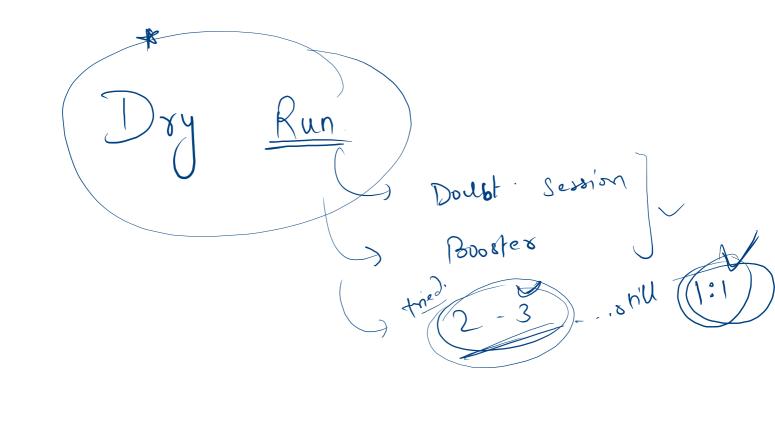




Sample Output 0



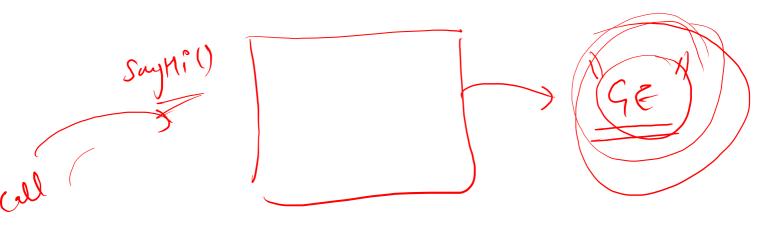
star= A &7
Space = X O



function. block of code which is used to block block berform operation.

Kello Richabh. www. Ameron.in

Block of code.			
Syntax		, h	hya ²
return	type name of	fine	(paral) par
	11 body	ogic	Operation.

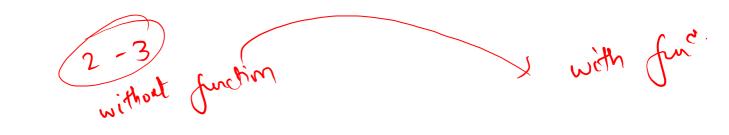


```
public class Main

public static String sayHi(String name){
    String ans = "Good Evening " + name;
    return ans;
}

public static void main(String[] args) {
    String s = sayHi("Neeraj");
    System.out.println(s);
}
```

main -> entry bt.



Factorial of N

Problem Submissions Leaderboard Discussions

A **teacher** is explaining **factorial** to the students. Since, the calculation involved in factorial is a bit difficult for him to do. The teacher wants to write a **program**, so that he doesn't need to **calculate** the **factorial** of every number. You have to help the teacher in writing a program for factorial calculation.

Take an integer N as input.

Print the factorial of N.

Note: Factorial of 0 is 1.

Jactorial,
$$61 = 1$$

$$51 = 5 \times 4 \times 3 \times 2 \times 1$$

$$61 = 6 \times 5 \times 4 \times 3 \times 2 \times 1$$

$$31 = 3 \times 2 \times 1$$

Sample Input 0

N= 5

Sample Output 0

120

N=5 5x4x3x2x1

```
1 vimport java.io.*;
2 import java.util.*;
3
4 vpublic class Solution {
5
       public static void main(String[] args) {
6 ▼
7
           Scanner scn = new Scanner(System.in);
8
           int n = scn.nextInt();
9
10
           int fact = 1;
11
12 ▼
           for(int i = n; i >= 1; i--){
13
               fact *= i;
14
15
           System.out.println(fact);
16
17
18
       }
```

19 }

