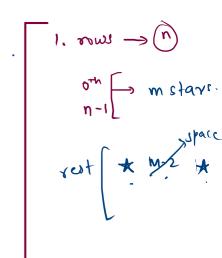
Pattern 7 - Print a hollow m by n star rectangle.

Sample Input 3

Take ${\bf m}$ and ${\bf n}$ as an integer input, then print a hollow ${\bf m}$ by ${\bf n}$ star rectangle.

Sample Output 3



```
m= S
6
                                                             h = 4
      public static void main(String[] args) {
          Scanner scn = new Scanner(System.in);
          int m = scn.nextInt();
          int n = scn.nextInt();
                                                              mw=x
11
          for(int row = 0; row < n; row++){
              if(row == 0 || row == n-1){}
                                                                           KE
                  //m stars
                  for(int i = 0; i < m; i++){
                                                                                          224
                      System.out.print("*");
                                                                   3
                                                                            3(4)
17
18
              else\{// * m-2 *
                  System.out.print("*");
                  for(int i = 0; i < m-2; i++){
                      System.out.print(" ");
                  System.out.print("*");
              System.out.println();
26
27
28
```

7

8

9

10

12

13

14 15

16

19

20

21

22 23

24 25

Pattern 8 - Print a hollow square without top

Problem Submissions Leaderboard Discussions

Take an integer input n and then print a hollow n by n square without the top.

Print as given in the conditions below:

In the first line there will a star , followed by **n-2** spaces and then there will be a star again,

Just like above, there will n-1 lines and then

in the last line there will be **n** stars.

```
1 import java.io.*;
 2 import java.util.*;
 4 public class Solution {
 6
      public static void main(String[] args) {
           Scanner scn = new Scanner(System.in);
           int n = scn.nextInt();
 9
           for(int row = 0; row < n; row++){
10
               if(row == n-1){
11
                   for(int i = 0; i < n; i++){
12
                       System.out.print("*");
13
               }else{
14
                   System.out.print("*");
                   for(int i = 0; i < n-2; i++){
16
                       System.out.print(" ");
18
19
                   System.out.print("*");
21
               System.out.println();
22
23
24 }
```

```
0<3
                    n=3.
13
 213
```

n =5

7000 = p

3

Pattern 9 - Square Ladder with top and bottom

Take **n** as an integer input, then print **n** tab separated stars in the first line, 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.

N=5 even -> nstars.

```
1 vimport java.io.*;
 2 import java.util.*;
 4 *public class Solution {
 6
        public static void main(String[] args) {
 7
            Scanner scn = new Scanner(System.in);
8
            int n = scn.nextInt();
            for(int row = 0; row < n; row++){</pre>
9 1
10 ▼
                if(row \% 2 == 0){ // n stars}
11 v
                    for(int i = 0; i < n; i++){
12
                        System.out.print("*\t");
13
                }else{
14 ▼
15
                    System.out.print("*\t");
                    for(int i = 0; i < n-2; i++){
16
                        System.out.print("\t");
17
18
19
                    System.out.print("*\t");
20
21
                System.out.println();
22
23
```

24 }

— A — A — A

n=5

2 - **

Y _ X A A X

GKSTR24 Pattern_7_Pyramid

Sample Input 0

N = 5

5

Sample Output 0

```
1 import java.io.*;
 2 import java.util.*;
 4 public class Solution {
       public static void main(String[] args) {
           Scanner scn = new Scanner(System.in);
           int n = scn.nextInt();
           int star = 1;
10
           int space = n-1;
11
           for(int row = 0; row < n; row++){
12
13
               for(int i = 0; i < space; i++){
14
                   System.out.print(" ");
15
16
               for(int i = 0; i < star; i++){
17
                   System.out.print("* ");
18
19
               star++;
20
               space--;
21
               System.out.println();
22
23
24 }
```

```
Star= 1

Space = N-1

Star++

Space -
```

Swor

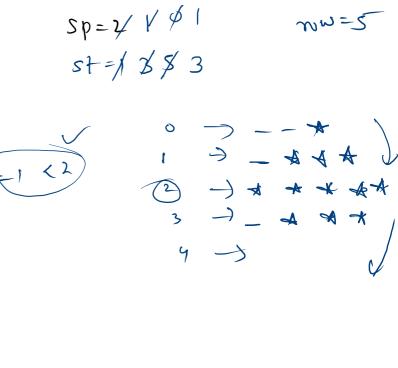
2n-1

1=3

n=3

```
public static void main(String[] args) {
           Scanner scn = new Scanner(System.in);
           int n = scn.nextInt();
 9
10
           int space = n-1;
11
           int star = 1;
12
13
           for(int row = 0; row < (2*n)-1; row++){
14
               for(int i = 0; i < space; i++){
15
                   System.out.print(" ");
16
17
               for(int i = 0; i < star; i++){
                   System.out.print("*");
18
19
20
21
               if(row < n-1){
                   star += 2;
23
                   space -=1;
24
25
               else{
26
                   star -= 2;
27
                   space += 1;
28
29
               System.out.println();
30
31
```

public class Solution {



n = 3

$$\begin{cases} f(x) = 2x \\ f($$

fuctions / methods in Joure. 5 priece of code block of code which perform specefic task. $f(x) = (x^2)$ 2 type of function Math-max syst printly user - defined. we can create our funct moun() nextlut()

Why? fuctions.

Reuse code.