

Print z, Y, x, W, v,...

Sample Output 0

Problem

Submissions

Leaderboard

z Y x W v U t S r Q p O n M l K j I h G f E d C b A

Print z, Y, x, W, v... upto 26 characters using a **while** loop.

a B c D e f G h I ---
↑
0 1 2 3 - - - - -

↑
25

if (even) → char 'a' + i
odd → char 'A' + i



odd → small
 even → capital

$$i = 25/24 \text{ (23)}$$

$$'A' + 24 = 65 + 24 = 89$$

$$'a' + i = 97 + 23 = 120$$

z y x - - - - -

```

1 import java.io.*;
2 import java.util.*;
3
4 public class Solution {
5
6     public static void main(String[] args) {
7         int i = 25;
8         while(i >= 0){
9             → if(i % 2 == 0){
10                 System.out.print((char)('A'+i) + " ");
11             }else{
12                 → System.out.print((char)('a'+i) + " ");
13             }
14
15             i--;
16         }
17     }
18 }
  
```

Pattern 1 - Print Stars in same line

Problem

Submissions

Leaderboard

Discussions

Take an integer input n and print n stars in the same straight line.

$n=3$

* * *

$n=4$

* * * *

$n=5$

* * * * *

{ $n \rightarrow$ i/p

for (n times)

{

print ("*");

}

$1 \times n = n$

* * * *

Sample Input 0

5

Sample Output 0

```
1 import java.io.*;
2 import java.util.*;
3
4 public class Solution {
5
6     public static void main(String[] args) {
7         Scanner scn = new Scanner(System.in);
8         int n = scn.nextInt();
9
10        for(int i = 0; i < n; i++){
11            System.out.print("*");
12        }
13    }
14 }
```

* * * * *

$n=4$

$i=0$

1

2

3

4

$0 < 4$

$1 < 4$

$2 < 4$

$3 < 4$

$4 < 4$ ✗

Pattern 2 - Print n x 12 star rectangle

Problem	Submissions	Leaderboard	Discussions
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Take **n** as an integer input and then print a star rectangle such that each line has n stars.

Also, there are 12 such lines.

n = 4

✓0

★ ★ ★ ★

1

★ ★ ★ ★

2

★ ★ ★ ★

3

★ ★ ★ ★

4

★ ★ ★ ★

5

★ ★ ★ ★

6

★ ★ ★ ★

7

★ ★ ★ ★

8

★ ★ ★ ★

9

★ ★ ★ ★

10

★ ★ ★ ★

11

★ ★ ★ ★

n = 3

0

★ ★ ★

1

★ ★ ★

2

★ ★ ★

3

★ ★ ★

4

★ ★ ★

5

★ ★ ★

6

★ ★ ★

7

★ ★ ★

8

★ ★ ★

9

★ ★ ★

10

★ ★ ★

11

★ ★ ★

12 times.

```

1 import java.io.*;
2 import java.util.*;
3
4 public class Solution {
5
6     public static void main(String[] args) {
7         Scanner scn = new Scanner(System.in);
8         int n = scn.nextInt(); → n=2
9
10        for(int row = 0; row < 12; row++){
11            for(int i = 0 ; i < n; i++){
12                System.out.print("*");
13            }
14            System.out.println();
15        }
16
17    }
18
19 }

```

```

* * *
* * *
* * *

```

row = 0

0 < 12 ✓

i = 0 0 < 3 ✓

1/ 1 < 3 ✓

2/ 2 < 3 ✓

3 3 < 3 ✗

1

1 < 12 ✓

i = 0 0 < 3

Pattern 3 - nxn star rectangle

Problem

Submissions

Leaderboard

Discussions

Take n as an integer input. Then print nxn star **rectangle** as mentioned below.

In each line n stars should be printed.

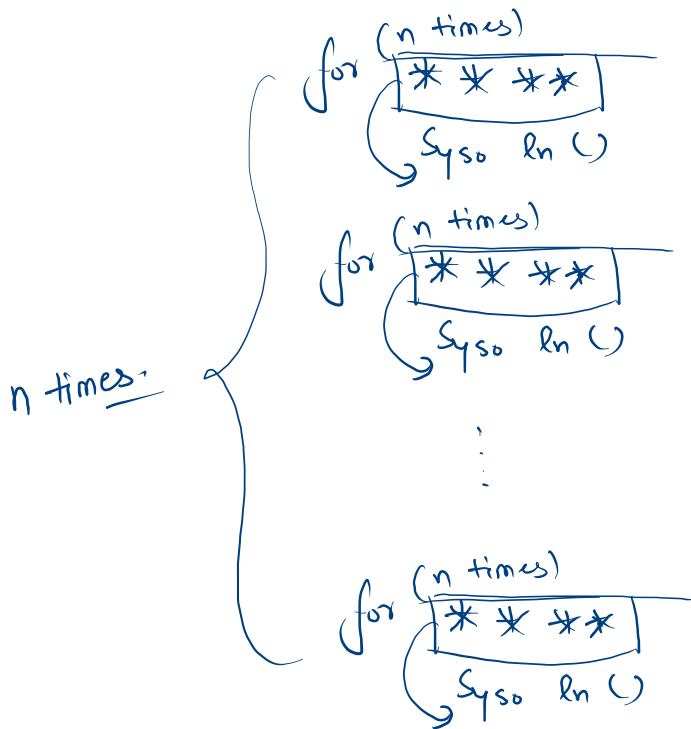
And there be n such lines.

Sample Input 0

4

Sample Output 0

```
****
****
****
****
```



```
1 import java.io.*;
2 import java.util.*;
3
4 public class Solution {
5
6     public static void main(String[] args) {
7         Scanner scn = new Scanner(System.in);
8         int n = scn.nextInt();
9
10
11         for(int row = 0; row < n; row++){
12             //single
13             for(int i = 0; i < n; i++){
14                 System.out.print("*");
15             }
16             System.out.println();
17         }
18
19     }
20 }
```

GKSTR19 Pattern_4

Take Integer **N** as input and print the following pattern.

$N=5$



$n=2$

*
* *

1. $rows = ? = N =$

2.

1 row } $\underline{stars = 1?}$
start++


```

1 import java.io.*;
2 import java.util.*;
3
4 public class Solution {
5
6     public static void main(String[] args) {
7         Scanner scn = new Scanner(System.in);
8         int n = scn.nextInt();
9
10        int star = 1;
11
12        for(int row = 0; row < n; row++){
13            //1 row
14            for(int i = 0; i < star; i++){
15                System.out.print("* ");
16            }
17            System.out.println();
18            star++;
19        }
20
21    }
22
23 }

```

$n=3$
Fundamental.

```

      *
     * *
    * * *

```

$star = 1, 2, 3, 4$ $row = 0, 1, 2, 3$
 $0 < 3$
 $1 < 3$
 $2 < 3$
 $3 < 3$ (circled)
 $i = 0, 1, 2, 3$
 $0 < 3$
 $1 < 3$ ✓
 $2 < 3$ ✓
 $3 < 3$ (circled) ✗

```

      *...
     *-*...
    *-*-*...

```

output box

*
* *
* * *

output box

-	-	*
-	*	*
*	*	*

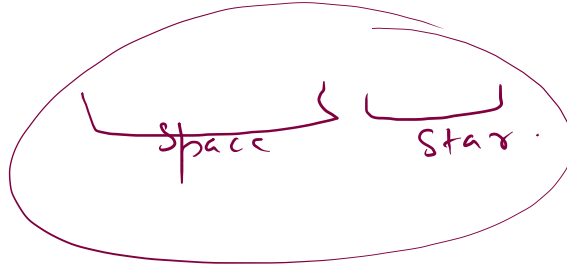
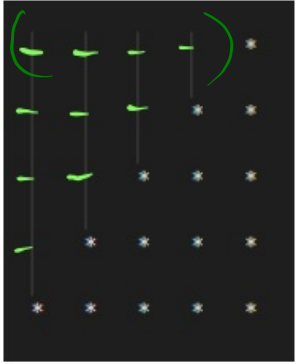
Pattern - 5.

$$n = 5$$

1. $nws = n$

2.

$$\left\{ \begin{array}{l} \text{Star} = 1 \\ \text{Space} = n - 1 \end{array} \right. \rightarrow \left\{ \begin{array}{l} \text{Star}++ \\ \text{Space}-- \end{array} \right.$$



Pattern - 5

✂
* *
* * *

```

6 public static void main(String[] args) {
7     Scanner scn = new Scanner(System.in);
8     int n = scn.nextInt();
9
10    int star = 1;
11    int space = n-1;
12
13    for(int row = 0; row < n; row++){
14        |
15        for(int i = 0; i < space; i++){
16            System.out.print(" ");
17        }
18        for(int i = 0; i < star; i++){
19            System.out.print("*");
20        }
21
22        System.out.println();
23        star++;
24        space--;
25    }
26
27 }

```

n = 3

- - *
- * *
x * *

Star = 1 2 3 4
Space = 2 1 0 -1

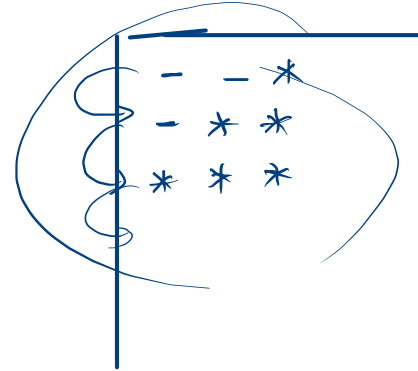
row = 0 1 2 3

2 < 3 ✓

3 < 3 ✓

n = 4

- - - *
- - * *
- * * *
* * * *



n=3

stars = 1 2 3 4

nw = 4 0 < 3

1
1 2
1 2 3

```
3  
4 public class Solution {  
5  
6     public static void main(String[] args) {  
7         Scanner scn = new Scanner(System.in);  
8         int n = scn.nextInt();  
9  
10        int star = 1;  
11  
12        for(int row = 0; row < n; row++){  
13            //1 row  
14            int val = 1;  
15  
16            for(int i = 0; i < star; i++){  
17                System.out.print(val + " ");  
18                val++;  
19            }  
20            System.out.println();  
21            star++;  
22        }  
23  
24  
25    }  
26 }
```

5

5 10

5 10 15

5 10

Pattern 6 - Right triangle of 5 multiples

```
1 import java.io.*;
2 import java.util.*;
3
4 public class Solution {
5
6     public static void main(String[] args) {
7         Scanner scn = new Scanner(System.in);
8         int n = scn.nextInt();
9
10        int star = 1;
11
12        for(int row = 0; row < n; row++){
13            //1 row
14            int val = 5;
15
16            for(int i = 0; i < star; i++){
17                System.out.print(val + " ");
18                val += 5;
19            }
20            System.out.println();
21            star++;
22        }
23    }
24 }
```