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1 import java.util.*;

2 public class Main

3 {

4 public static void main(String[] args) {

5 Scanner sc=new Scanner(System.in);

6 int n=sc.nextInt();

7 for(int i=0;i<(n+1)/2;i++){

8 for(int j=0;j<(n/2)-i;j++){

9 System.out.print(" ");

10 }

11 for(int k=0;k<(2*i)+1;k++){

12 System.out.print("*");

13 }

14 System.out.println();

15 }

16 for(int i=(n/2)-1;i>=0;i--){

17 for(int j=0;j<(n/2)-i;j++){

18 System.out.print(" ");

19 }

20 for(int k=0;k<(2*i)+1;k++){

21 System.out.print("*");

22 }

23 System.out.println();

24 }

25 }

26 }

27 }

input

5

*

*

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Language Java

Main.java

```
4 public static void main(String[] args) {
5     Scanner sc=new Scanner(System.in);
6     int n=sc.nextInt();
7     for(int i=0;i<(n+1)/2;i++){
8         for(int j=0;j<i;j++){
9             System.out.print(" ");
10        }
11        for(int k=0;k<n-(2*i);k++){
12            System.out.print("*");
13        }
14        System.out.println();
15    }
16    for(int i=(n/2)-1;i>=0;i--){
17        for(int j=0;j<i;j++){
18            System.out.print(" ");
19        }
20        for(int k=0;k<n-(2*i);k++){
21            System.out.print("*");
22        }
23        System.out.println();
24    }
25    }
26    System.out.println();
27 }
28
29
30
```

input

5

*

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Main.java

1 import java.util.*;

2 public class Main

3 {

4 public static void main(String[] args) {

5 Scanner sc=new Scanner(System.in);

6 int n=sc.nextInt();

7 for(int i=0;i<n;i++){

8 for(int j=0;j<n;j++){

9 if(i==n/2 || j==n/2 || (i==0 && j<=n/2) || (i==n-1 && j>=n/2) || (i>=n/2 && j==0) || (i<=n/2 && j==n-1)){

10 System.out.print("*");

11 }

12 else{

13 System.out.print(" ");

14 }

15 }

16 System.out.println();

17 }

18 }

19 }

20 }

21 }

22 }

input

5

* *

* *

* ****

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Main.java

1 import java.util.*;

2 public class Main

3 {

4 public static void main(String[] args) {

5 Scanner sc=new Scanner(System.in);

6 int n=sc.nextInt();

7 for(int i=n;i>=1;i--){

8 for(int j=i;j>=1;j--){

9 System.out.print(j+ " ");

10

11 } System.out.println();

12

13 }

14

15

16 }

17 }

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Language Java

input

3

3 2 1

2 1

1

Program finished with exit code 0

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Language Java

Main.java

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

input

3
1
2 3
4 5 6

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Language Java

Main.java
3 {
4 public static void main(String[] args) {
5 Scanner sc=new Scanner(System.in);
6 int n=sc.nextInt();
7 int n1=0;
8 int n2=1;
9 for(int i=1;i<=n;i++){
10 for(int j=1;j<=i;j++){
11 System.out.print(n1+ " ");
12 int n3=n1+n2;
13 n1=n2;
14 n2=n3;
15 }
16 System.out.println();
17 }
18 }
19 }

input
3
0
1 1
2 3 5

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Language Java

Main.java

```
1 public static void main(String[] args) {
2     Scanner sc=new Scanner(System.in);
3     int n=sc.nextInt();
4     for(int i=1;i<=n;i++){
5         for(int j=1;j<=i;j++){
6             if(((i-1)+(j-1))%2==0){
7                 System.out.print("1 ");
8             }else{
9                 System.out.print("0 ");
10            }
11        }
12        System.out.println();
13    }
14 }
```

input

```
3
1
0 1
1 0 1
```

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Stop

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Language Java

Main.java

```
1 public class Main
2 {
3     public static void main(String[] args) {
4         int n=3;
5         for (int i=1;i<=n;i++) {
6             for (int j=0;j<i;j++) {
7                 char ch = (char) ('A' + n - i + j);
8                 System.out.print(ch + " ");
9             }
10            System.out.println();
11        }
12    }
13 }
14 }
15 }
```

input

```
C
B C
A B C

...Program finished with exit code 0
Press ENTER to exit console.
```

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Debug

Stop

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Language: Java

Main.java

```
1 public class Main
2 {
3     public static void main(String[] args) {
4         int n=3;
5         for (int i=1;i<=n;i++) {
6             for (int s=1;s<=(n-i)*2;s++) {
7                 System.out.print(" ");
8             }
9             for (int j=0; j<i;j++) {
10                char ch=(char) ('A' + j);
11                System.out.print(ch);
12                System.out.print(" ");
13            }
14            for (int j=i-2;j>=0;j--) {
15                char ch=(char) ('A' + j);
16                System.out.print(ch);
17                if (j>0) {
18                    System.out.print(" ");
19                }
20            }
21            System.out.println();
22        }
23    }
24 }
25 }
```

input

A
A B A
A B C B A

...Program finished with exit code 0
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Main.java

1 public class Main

2 {

3 public static void main(String[] args) {

4 int n=3;

5 for (int i=1;i<=(2*n-1);i++) {

6 for (int j=1;j<=(2*n-1);j++) {

7 int minDist=Math.min(Math.min(i,2*n-i),Math.min(j,2*n-j));

8 char ch=(char) ('A'+(n-minDist));

9 System.out.print(ch + " ");

10 }

11 System.out.println();

12 }

13 }

14 }

15 }

16 }

Language Java

input

C C C C C
C B B B C
C B A B C
C B B B C
C C C C C
...Program finished with exit code 0

The screenshot shows the OnlineGDB website interface. The browser tabs include "DSA MODULE -1 - Course" and "Online Java Compiler - online e...". The address bar shows "onlinegdb.com/online_java_compiler#". The left sidebar contains navigation links: "OnlineGDB", "code compile run debug share", "IDE", "My Projects", "Classroom", "Learn Programming", "Programming Questions", "Sign Up", and "Login". Below these is an "auth0" logo and a promotional message: "You asked, we delivered! Our Free Plan now includes a Custom Domain, 5 Actions, and 25,000 MAUs." At the bottom of the sidebar are links: "About", "FAQ", "Blog", "Terms of Use", "Contact Us", and "GDB". The main area displays a Java program in a code editor with a dark theme. The code defines a class "Main" with a static method "main" that takes an array of integers "heights" and finds the maximum value. The program prints the maximum height and the index of the first occurrence. The output console at the bottom shows the program's execution, indicating it finished with exit code 0 and prompts the user to press ENTER to exit the console.

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```
1 public class Main
2 {
3     public static void main(String[] args) {
4         int[] heights={1, 3, 2, 4, 1};
5         int maxHeight = 0;
6         for (int height:heights) {
7             if (height>maxHeight) {
8                 maxHeight=height;
9             }
10        }
11        for (int h=0;h<heights.length;h++) {
12            if (heights[h]==maxHeight) {
13                System.out.print(h+" ");
14            } else {
15                System.out.print("\n");
16            }
17        }
18        System.out.println();
19    }
20 }
21
22
23
24 }
```

input

...Program finished with exit code 0
Press ENTER to exit console.

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Language Java

Main.java

```
1 public class Main
2 {
3     public static void main(String[] args) {
4         int n=5;
5         for (int i=1;i<=n;i++) {
6             for (int j=0;j<=n;j++) {
7                 int num=i*(j*n);
8                 System.out.print(num);
9                 if (num<10) {
10                     System.out.print(" ");
11                 } else {
12                     System.out.print(" ");
13                 }
14             }
15             System.out.println();
16         }
17     }
18 }
19 }
20 }
```

input

```
1 6 11 16 21
2 7 12 17 22
3 8 13 18 23
4 9 14 19 24
5 10 15 20 25
```

...Program finished with exit code 0

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Main.java

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Language Java

```
1 public class Main
2 {
3     public static void main(String[] args) {
4         int n=4;
5         for (int i=1;i<=n;i++) {
6             for (int j=0;j<=n;j++) {
7                 int num;
8                 if (j%2==0) {
9                     num=(j*n)+i;
10                } else {
11                    num=((j+1)*n)-i+1;
12                }
13                System.out.print(num);
14                if (num<10) {
15                    System.out.print(" ");
16                } else {
17                    System.out.print(" ");
18                }
19            }
20        }
21        System.out.println();
22    }
23 }
24
25
26 }
```

input

1 8 9 16
2 7 10 15
3 6 11 14
4 5 12 13

...Program finished with exit code 0
Press ENTER to exit console.

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Main.java

```
1 public class Main
2 {
3     public static void main(String[] args) {
4         int n=3;
5         for(int row=1;row<=n;row++){
6             int st=row;
7             int sp=((n-row)*2)-1;
8             int c_val1=1;
9             int c_val2=row;
10            for(int col=1;col<=st;col++){
11                System.out.print(c_val1+" ");
12                c_val1++;
13            }
14            for(int col=1;col<=sp;col++){
15                System.out.print(" ");
16            }
17            for(int col=1;col<=st;col++){
18                if(n!=c_val2){
19                    System.out.print(c_val2+" ");
20                }
21                c_val2--;
22            }
23            System.out.println();
24        }
25    }
26 }
```

Language Java

Input

1 1
1 2 2 1
1 2 3 2 1

...Program finished with exit code 0
Press ENTER to exit console

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Language Java

Main.java

```
1 public class Main
2 {
3     public static void main(String[] args) {
4         int n=3;
5         for (int row=0;row<n;row++) {
6             for (int col=0;col<n;col++) {
7                 int rowdist=Math.abs((n/2)-row);
8                 int coldist=Math.abs((n/2)-col);
9                 System.out.print(1+Math.max(rowdist,coldist) + " ");
10            }
11            System.out.println();
12        }
13    }
14 }
15
16
17 }
```

input

```
2 2 2
2 1 2
2 2 2

...Program finished with exit code 0
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```

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Language Java

Main.java

```
1 public class Main
2 {
3     public static void main(String[] args) {
4         int n=3;
5         for(int row=1;row<=n;row++){
6             int st=row;
7             int sp=(n-row)*2;
8             int c_val1=1;
9             int c_val2=row;
10            for(int col=1;col<=st;col++){
11                System.out.print(c_val1+" ");
12                c_val1++;
13            }
14            for(int col=1;col<=sp;col++){
15                System.out.print(" ");
16            }
17            for(int col=1;col<=st;col++){
18                System.out.print(c_val2+" ");
19                c_val2--;
20            }
21            System.out.println();
22        }
23    }
24 }
```

input

```
1
1 2      1
1 2 3 3 2 1
```

...Program finished with exit code 0

Press ENTER to exit console.