

DSA MODULE -1 - Course

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online compiler and debugger for c/c++

code. compile. run. debug. share.

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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 System.out.println();

26 }

27 }

input

5

*

*

The screenshot shows the OnlineGDB web interface. The browser tab is titled "Online Java Compiler - online...". The URL bar shows "onlinegdb.com/online_java_compiler#". The left sidebar has a menu with items: "OnlineGDB", "code, compile, run, debug, share", "IDE", "My Projects", "Classroom", "Learn Programming", "Programming Questions", "Sign Up", and "Login". The main editor area shows a Java file named "Main.java" with the following code:

```
public static void main(String[] args) {
    Scanner sc=new Scanner(System.in);
    int n=sc.nextInt();
    for(int i=0;i<(n+1)/2;i++){
        for(int j=0;j<((n/2)-i);j++){
            System.out.print(" ");
        }
        for(int k=0;k<((2*i)+1);k++){
            if(k==0 || k==(2*i)){
                System.out.print("**");
            }else{
                System.out.print(" ");
            }
        }
        System.out.println();
    }
    for(int i=(n/2)-1;i>=0;i--){
        for(int j=0;j<((n/2)-i);j++){
            System.out.print(" ");
        }
        for(int k=0;k<((2*i)+1);k++){
            if(k==0 || k==(2*i)){
                System.out.print("**");
            }else{
                System.out.print(" ");
            }
        }
    }
}
```

The output section at the bottom shows a series of '+' signs and '\n' characters, indicating the execution progress.

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Share

Save

{ } Beautify

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 }
```

Language Java

input

5

* *

* *

The screenshot shows the OnlineGDB website interface. The browser address bar displays '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'. The main editor area shows a Java program for finding the intersection of two arrays. The code is as follows:

```
import java.util.*;
public class Main
{
    public static void main(String[] args) {
        Scanner sc=new Scanner(System.in);
        int n=sc.nextInt();
        for(int i=0;i<n;i++){
            for(int j=0;j<n;j++){
                if(j==0 || j==n-1 || (i==j && i>=n/2) || (i>=n/2 && i+j==n-1)){
                    System.out.print("*");
                }
                else{
                    System.out.print(" ");
                }
            }
            System.out.println();
        }
    }
}
```

The output area at the bottom shows a 5x5 grid of asterisks with a diagonal of asterisks from the bottom-left to the top-right, representing the intersection of two 5-element arrays.

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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

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

input

3
1
0 1
1 0 1

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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     int var=n/2;
5     for(int i=0;i<n;i++){
6         for(int j=0;j<n;j++){
7             if(i==var && j==var){
8                 System.out.print("1 ");
9             }else{
10                System.out.print("2 ");
11            }
12        }
13        System.out.println();
14    }
15 }
```

input

3

2 2 2

2 1 2

2 2 2

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Language: 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=1;j<=i;j++) {

7 System.out.print(j);

8 if (j<i) {

9 System.out.print(" ");

10 }

11 }

12 if (i==1) {

13 System.out.print(" ");

14 } else if (i==2) {

15 System.out.print(" ");

16 } else if (i==3) {

17 System.out.print(" ");

18 }

19 if (i==1) {

20 System.out.print("1");

21 } else {

22 System.out.print("2 1");

23 }

24 System.out.println();

25 }

26 }

27 }

input

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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Main.java

2 {

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

4 int n=3;

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

6 for (int j=1;j<=i;j++) {

7 System.out.print(j);

8 if (j==i) {

9 System.out.print(" ");

10 }

11 }

12 if (i==1) {

13 System.out.print(" ");

14 } else if (i==2) {

15 System.out.print(" ");

16 } else if (i==3) {

17 System.out.print(" ");

18 }

19 if (i == 1) {

20 System.out.print("1");

21 } else if (i == 2) {

22 System.out.print("2 1");

23 } else if (i == 3) {

24 System.out.print("3 2 1");

25 }

26 }

27 System.out.println();

28 }

input

1 1

1 2 2 1

1 2 3 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 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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Beautify

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
Press ENTER to exit console.

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
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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

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Language Java

Main.java

```
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=maxHeight;h>=1;h--) {
12            for (int i=0;i<heights.length;i++) {
13                if (heights[i]>=h) {
14                    System.out.print("** ");
15                } else {
16                    System.out.print(" ");
17                }
18            }
19            System.out.println();
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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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.