



\*Question1.java Question3.java Question2.java Question4.java Question5.java

```
1 public class Question1 {
2     public static void main(String[] args) {
3         int n=10;
4         for(int i=0;i<n;i++) {
5             for(int j=0;j<n;j++) {
6                 if(i==0 || j==n-1 || i==j || i==n-1-j) {
7                     System.out.print("*");
8                 }
9                 else {
10                     System.out.print(" ");
11                 }
12             }
13             System.out.print("\n");
14             for(int j=0;j<n;j++) {
15                 if(i==j || j==0 || j==n-1) {
16                     System.out.print("*");
17                 }
18                 else {
19                     System.out.print(" ");
20                 }
21             }
22             System.out.print("\n");
23             for(int j=0;j<n;j++) {
24                 if(i==0 || i==n-1 || j==0 || j==n-1) {
25                     System.out.print("*");
26                 }
27                 else {
28                     System.out.print(" ");
29                 }
30             }
31             System.out.print("\n");
32             for(int j=0;j<n;j++) {
33                 if(i==0 || i==n-1 || j==n-1 || i==n-1 || j>0 || j<n-1) {
34                     System.out.print("*");
35                 }
36                 else {
37                     System.out.print(" ");
38                 }
39             }
40             System.out.print("\n");
41             for(int j=0;j<n;j++) {
42                 if(i==0 || i==n-1 || j==n-1 || i==n-1 || j>0 || j<n-1 || j==n-1 || i>0 || i<n-1 || i==j || i==n-1-j) {
43                     System.out.print("*");
44                 }
45                 else {
46                     System.out.print(" ");
47                 }
48             }
49             System.out.print("\n");
50             for(int j=0;j<n;j++) {
51                 if(i==0 || j>0 || j<n-1 || i==n-1 || j>0 || j<n-1 || j==0 || i>0 || i<n-1 || j==n-1 || i>0 || i<n-1) {
52                     System.out.print("*");
53                 }
54                 else {
55                     System.out.print(" ");
56                 }
57             }
58             System.out.print("\n");
59             for(int j=0;j<n;j++) {
60                 if(i==j || j==0 || j==n-1) {
61                     System.out.print("*");
62                 }
63                 else {
64                     System.out.print(" ");
65                 }
66             }
67             System.out.print("\n");
68             System.out.print("\n");
69         }
70     }
71 }
72
73
74
75
```



Console

<terminated> Question1 [Java Application] C:\Program Files\Java\jdk-17.0.4.1\bin\javaw.exe (Oct 26, 2022, 7:58:21 AM – 7:58:24 AM)

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

JavaApps - Launch/src/Question2.java - Eclipse IDE

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Question1.java Question3.java Question2.java Question4.java Question5.java

```
1
2 public class Question2 {
3     public static void main(String[] args) {
4         int n=4;
5         for(int i=1;i<=n;i++) {
6             for(int j=1;j<=n;j++) {
7                 System.out.print(i);
8             }
9             System.out.println();
10        }
11    }
12
13 }
14
```



Console

<terminated> Question2 [Java Application] C:\Program Files\Java\jdk-17.0.4.1\bin\javaw.exe (Oct 26, 2022, 7:58:45 AM – 7:58:46 AM)

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<terminated> Question2 [Java Application]

JavaApps - Launch/src/Question3.java - Eclipse IDE

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Question1.java Question3.java Question2.java Question4.java Question5.java

```
1
2 public class Question3 {
3     public static void main(String[] args) {
4         int n=10;
5         for(int i=0;i<n;i++) {
6             for(int j=0;j<n;j++) {
7                 if(i==0 || i==n-1 || j==0 || j==n-1 || i+j<=(n-1)/2 || j-i>=(n-1)/2 ) {
8                     System.out.print("*");
9                 }
10                else {
11                    System.out.print(" ");
12                }
13            }
14            System.out.println();
15        }
16    }
17 }
18 }
19 }
```



Console

<terminated> Question3 [Java Application] C:\Program Files\Java\jdk-17.0.4.1\bin\javaw.exe (Oct 26, 2022, 7:59:02 AM – 7:59:03 AM)

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

JavaApps - Launch/src/Question4.java - Eclipse IDE

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Question1.java Question3.java Question2.java Question4.java Question5.java

```
1
2 public class Question4 {
3     public static void main(String[] args) {
4         int n=10;
5         for(int i=0;i<n;i++) {
6             for(int j=0;j<n;j++) {
7                 if(j==0 && i>=(n-1)/2 || j==n-1 && i>=(n-1)/2 || i==n-1 || i-j>=(n-1)/2 || i+j>=(n-1)+(n-1)/2 ) {
8                     System.out.print("+");
9                 }
10                else {
11                    System.out.print(" ");
12                }
13            }
14            System.out.println();
15        }
16    }
17 }
18 }
19 }
```



Console

<terminated> Question4 [Java Application] C:\Program Files\Java\jdk-17.0.4.1\bin\javaw.exe (Oct 26, 2022, 7:59:15 AM – 7:59:15 AM)

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



JavaApps - Launch/src/Question5.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

Question1.java Question3.java Question2.java Question4.java Question5.java

```
1
2 public class Question5 {
3     public static void main(String[] args) {
4         int n=10;
5         for(int i=0;i<n;i++) {
6             for(int j=0;j<n;j++) {
7                 if(i==0 || i==(n-1) || i+j<=(n-1)/2 || i-j>=(n-1)/2) {
8                     System.out.print("X");
9                 }
10                else {
11                    System.out.print(" ");
12                }
13            }
14            System.out.println();
15        }
16    }
17 }
18 }
19 }
```



Console

<terminated> Question5 [Java Application] C:\Program Files\Java\jdk-17.0.4.1\bin\javaw.exe (Oct 26, 2022, 7:59:24 AM – 7:59:25 AM)

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<terminated> Question5 [Java Application] C:\Program Files\Java\jdk-17.0.4.1\bin\javaw.exe (Oct 26, 2022, 7:5