

```
1 import java.io.*;
2
3 public class question43
4 {
5     public static void main(String args[])
6     {
7         int arr[][]={{1,1,2},{1,2,0},{1,0,5}};
8         int max=0;
9         int min=0;
10
11         //diagonal elements
12         System.out.println("Diagonal elements:");
13         for(int i=0;i<3;i++)
14         {
15             for(int j=0;j<3;j++)
16             {
17                 if(i==j)
18                     System.out.print(arr[i][j]+" ");
19             }
20         }
21
22         //lower triangle elements
23         System.out.println("\nLower triangle elements:");
24         for(int i=0;i<3;i++)
25         {
26             for(int j=0;j<3;j++)
27             {
28                 if(i>=j)
29                     System.out.print(arr[i][j]+" ");
30             }
31             System.out.println();//this is just so as to take our cursor to the next line
32         }
33
34         //upper triangle elements
35         System.out.println("Upper triangle elements:");
36         for(int i=0;i<3;i++)
37         {
38             for(int j=0;j<3;j++)
39             {
40                 if(i<=j)
41                     System.out.print(arr[i][j]+" ");
42                 else
43                     System.out.print(" ");
44             }
45             System.out.println();//this is just so as to take our cursor to the next line
46         }
47
48     }
49 }
50
```