```
abstract class Furniture {

  protected String color;
  protected int width;
  protected int height;
  public abstract void accept();
  public abstract void display();
 }
     class chair extends Furniture {
  private int numOf_legs;

  public void accept() {

  color = "Brown";
  width = 36;
  height = 48;
  numOf_legs = 4;
 }
    public void display()    {
  System.out.println("DISPLAYING VALUE FOR CHAIR
  System.out.println("==========================
  System.out.println("Color is" + color);
  System.out.println("Width is" + width);
  System.out.println("Height is" + height);
  System.out.println("Number of legs is" + numOf
  System.out.println(" ");
  }
 }

 class Bookshelf extends Furniture {

  private int numOf_shelves;

  public void accept()  {

   color ="Black";
   width = 72;
   height = 84;
   numOf_shelves = 4;
  }
  public void display ()  {
                intln("DISPLAYING VALUES
                intln
                ========================")
```

Make public

```
32    private int numOf_shelves;
33
34    public void accept()  {
35
36     color ="Black";
37     width = 72;
38     height = 84;
39     numOf_shelves = 4;
40    }
41    public void display ()  {
42     System.out.println("DISPLAYING VALUES FOR BOO
43     System.out.println
44    ("================================");
45
46    System.out.println("Color is" + color);
47    System.out.println("Width is" + width);
48    System.out.println("Height is" + height);
49    System.out.println("Number of shelves is" + nu
50    System.out.println(" ");
51    }
52   }
53
54   class FurnitureDemo  {
55    public static void main(String[] args)   {
56     Bookshelf b1 = new Bookshelf();
57     b1.accept();
58     b1.display();
59
60
61     chair c1 = new chair ();
62     c1.accept();
63     c1.display();
64
65    }
66    }
```

```
DISPLAYING VALUES FOR BOOKSHELF
==================================
Color isBlack
Width is72
Height is84
Number of shelves is4

DISPLAYING VALUE FOR CHAIR
=================================
Color isBrown
Width is36
Height is48
Number of legs is4


Process finished.
```

```java
import java.util.*;

class Main
{
    public static int[] remove(int[] x, int key)
    {
        List<Integer> result = new ArrayList<>();

        for (int y: x) {
            if (y != key) {
                result.add(y);
            }
        }

        return result.stream()
                     .mapToInt(Integer::intValue)
                     .toArray();
    }

    public static void main(String[] args) {
        int[] x = { 1, 4, 1, 3, 1, 2, 1, 0 };
        int key = 1;

        x = remove(x, key);
        System.out.println("Author:B.Naveen kuma
        System.out.println(Arrays.toString(x));
    }
}
```

```
Author:B.Naveen kumar
SAP ID:51834546
[4, 3, 2, 0]

Process finished.
```

```java
public class Main
{
    public static void main(String[] args)
    {
        int i,j,k;
        for(i=1;i<=5;i++)
        {
            for(j=5;j>i;j--)
            {
                System.out.print(" ");
            }
            if(i%2!=0)
            {
                for(j=1,k=1;j<=2*i-1;j++)
                {
                    if(j<i)
                    {
                        System.out.print(k);
                        k++;
                    }
                    else
                    {
                        System.out.print(k);
                        k--;
                    }
                }
            }
            else
            {
                for(j=1,k=i;j<=2*i-1;j++)
                {
                    if(j<i)
                    {
                        System.out.print(k);
                        k--;
                    }
                    else
                    {
                        System.out.print(k);
                        k++;
                    }
```

```
13              {
14                  for(j=1,k=1;j<=2*i-1;j++)
15                  {
16                      if(j<i)
17                      {
18                          System.out.print(k);
19                          k++;
20                      }
21                      else
22                      {
23                          System.out.print(k);
24                          k--;
25                      }
26                  }
27              }
28              else
29              {
30                  for(j=1,k=i;j<=2*i-1;j++)
31                  {
32                      if(j<i)
33                      {
34                          System.out.print(k);
35                          k--;
36                      }
37                      else
38                      {
39                          System.out.print(k);
40                          k++;
41                      }
42                  }
43              }
44                  System.out.println();
45          }
46      }
47  }
```

```
    1
   212
  12321
 4321234
123454321

Process finished.
```

JAVA_QUIZ_DAY_12

Attempts allowed: 1

This quiz opened at Friday, 31 July 2020, 3:00 PM

This quiz will close at Friday, 31 July 2020, 5:00 PM

Time limit: 30 mins

SUMMARY OF YOUR PREVIOUS ATTEMPTS

State	Marks / 20.00	Grade / 10.00	Review
Finished Submitted Friday, 31 July 2020, 3:50 PM	16.00	8.00	

YOUR FINAL GRADE FOR THIS QUIZ IS