```java
1  abstract class Furniture {
2
3    protected String color;
4    protected int width;
5    protected int height;
6    public abstract void accept();
7    public abstract void display();
8  }
9  class chair extends Furniture {
10   private int numOf_legs;
11
12   public void accept() {
13
14   color = "Brown";
15   width = 36;
16   height = 48;
17   numOf_legs = 4;
18   }
19     public void display()     {
20        System.out.println("Author:E.Haneesha\nSap
21   System.out.println("DISPLAYING VALUE FOR CHAIR
22   System.out.println("============================
23   System.out.println("Color is" + color);
24   System.out.println("Width is" + width);
25   System.out.println("Height is" + height);
26   System.out.println("Number of legs is" + numOf
27   System.out.println(" ");
28   }
29 }
30
31 class Bookshelf extends Furniture {
32
33   private int numOf_shelves;
34
35   public void accept()  {
36
37    color ="Black";
38    width = 72;
39    height = 84;
40    numOf_shelves = 4;
41   }
        oid display () {
   out.println("DISPLAYING VALUES
        out.println
```

```java
33    private int numOf_shelves;
34
35    public void accept()  {
36
37     color ="Black";
38     width = 72;
39     height = 84;
40     numOf_shelves = 4;
41    }
42    public void display ()  {
43      System.out.println("DISPLAYING VALUES FOR BOO
44      System.out.println
45    ("=================================");
46
47    System.out.println("Color is" + color);
48    System.out.println("Width is" + width);
49    System.out.println("Height is" + height);
50    System.out.println("Number of shelves is" + nu
51    System.out.println(" ");
52    }
53 }
54
55 class FurnitureDemo  {
56  public static void main(String[] args)    {
57    Bookshelf b1 = new Bookshelf();
58    b1.accept();
59    b1.display();
60
61
62    chair c1 = new chair ();
63    c1.accept();
64    c1.display();
65
66  }
67 }
```

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

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Sap_id:51834630
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:E.Haneesha\nSAP I
    System.out.println(Arrays.toString(x));
  }
}
```

```
Author:E.Haneesha
SAP ID:51834630
[4, 3, 2, 0]

Process finished.
```

```java
public class Main
{
    public static void main(String[] args)
    {
        System.out.println("Author:E.Haneesha\n
        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++;
```

```java
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 }
```

```
Author:E.Haneesha
Sap_id:51834630
        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