```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 = "white";
15   width = 50;
16   height = 74;
17   numOf_legs = 4;
18   }
19      public void display()     {
20   System.out.println("DISPLAYING VALUE FOR CHAIR")
21   System.out.println("================================
22   System.out.println("Color is" + color);
23   System.out.println("Width is" + width);
24   System.out.println("Height is" + height);
25   System.out.println("Number of legs is" + numOf_l
26   System.out.println(" ");
27   }
28  }
29
30  class Bookshelf extends Furniture {
31
32   private int numOf_shelves;
33
34   public void accept()  {
35
36    color ="pink";
37    width = 90;
38    height =56;
39    numOf_shelves = 4;
40   }
41   public void display ()  {
42    System.out.println("DISPLAYING VALUES FOR BOOKS
43    System.out.println
```

```java
27      }
28    }
29
30    class Bookshelf extends Furniture {
31
32      private int numOf_shelves;
33
34      public void accept()  {
35
36        color ="pink";
37        width = 90;
38        height =56;
39        numOf_shelves = 4;
40      }
41      public void display ()  {
42        System.out.println("DISPLAYING VALUES FOR BOOKSH
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" + numOf
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     }
```

```
-----------------------------------
Color ispink
Width is90
Height is56
Number of shelves is4

DISPLAYING VALUE FOR CHAIR
===================================
Color iswhite
Width is50
Height is74
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 = {1,23,1,2,4,23,2,5,6,2 };
    int key = 1;

    x = remove(x, key);
    System.out.println("name:-G.sravan\nsapid:-518:
    System.out.println(Arrays.toString(x));
  }
}
```

```
name:-G.sravan
sapid:-51834566
[23, 2, 4, 23, 2, 5, 6, 2]

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++;
                  }
              }
          }
          System.out.println();
      }
  }
}
```

```
        1
       212
      12321
     4321234
    123454321

Process finished.
```