

```
1 public class Main
2 {
3     public static void main(String[] args)
4     {
5         int i,j,k;
6         for(i=1;i<=5;i++)
7         {
8             for(j=5;j>i;j--)
9             {
10                 System.out.print(" ");
11             }
12             if(i%2!=0)
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         }
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 }
```

TAB

{ }

;

"

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RUN



OUTPUT

```
1  
212  
12321  
4321234  
123454321
```

```
1 import java.util.*;
2
3 class Height
4 {
5     private int feet;
6     private int inches;
7
8     public void getDistance()
9     {
10         Scanner sc=new Scanner(System.in);
11
12         System.out.print("Enter feet: ");
13         feet=sc.nextInt();
14         System.out.print("Enter inches: ");
15         inches=sc.nextInt();
16     }
17     public void showDistance()
18     {
19         System.out.println("Feet: "+ feet +
20             "\tInches: "+ inches);
21     }
22
23     public void addDistance(Height H1, Height H2)
24     {
25         inches=H1.inches+H2.inches;
26         feet=H1.feet+H2.feet+(inches/12);
27         inches=inches%12;
28     }
29
30 public class Main
31 {
32     public static void main(String []s)
33     {
34         try
35         {
36
37             Height H1=new Height();
38             Height H2=new Height();
39             Height H3=new Height();
40
41             //read first Height
42             System.out.println("Author:D Aditva
```

← Code Playground



```
23     {
24         inches=H1.inches+H2.inches;
25         feet=H1.feet+H2.feet+(inches/12);
26         inches=inches%12;
27     }
28 }
29
30 public class Main
31 {
32     public static void main(String []s)
33     {
34         try
35         {
36
37             Height H1=new Height();
38             Height H2=new Height();
39             Height H3=new Height();
40
41             //read first Height
42             System.out.println("Author:Nancy
Florence\nSAP ID:51834501");
43             System.out.println("Enter first Height:");
44             H1.getDistance();
45
46             //read second Height
47             System.out.println("Enter second Height:");
48             H2.getDistance();
49
50             //add heights
51             H3.addDistance(H1,H2);
52             //print Height
53             System.out.println("Total Height is:" );
54             H3.showDistance();
55         }
56         catch (Exception e)
57         {
58             System.out.println("Exception occurred :"+
e.toString());
59         }
60     }
61 }
```

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RUN



← Code Playground



```
1 import java.util.*;
2
3 class Main
4 {
5     public static int[] remove(int[] x, int key)
6     {
7         List<Integer> result = new ArrayList<>();
8
9         for (int y: x) {
10             if (y != key) {
11                 result.add(y);
12             }
13         }
14
15         return result.stream()
16             .mapToInt(Integer::intValue)
17             .toArray();
18     }
19
20     public static void main(String[] args) {
21         int[] x = { 1, 4, 1, 3, 1, 2, 1, 0 };
22         int key = 1;
23
24         x = remove(x, key);
25         System.out.println("Author:Nancy
Florence\nSAP ID:51834501");
26         System.out.println(Arrays.toString(x));
27     }
28 }
```

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{

}

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RUN



OUTPUT

Author:Nancy Florence

SAP ID:51834501

[4, 3, 2, 0]

```
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("DISPLAYING VALUE FOR  
CHAIR");  
21  
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_legs);  
27        System.out.println(" ");  
28    }  
29 }  
30 class Bookshelf extends Furniture {  
31  
32    private int numOf_shelves;  
33  
34    public void accept() {  
35  
36        color = "Black";  
37        width = 72;  
38        height = 84;  
39        numOf_shelves = 10;  
40    }  
41 }
```

← Code Playground



```
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 = "Black";
37         width = 72;
38         height = 84;
39         numOf_shelves = 4;
40     }
41     public void display () {
42         System.out.println("DISPLAYING VALUES FOR
43 BOOKSHELF");
44         System.out.println
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" +
50         numOf_shelves);
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         chair c1 = new chair ();
62         c1.accept();
63         c1.display();
64
65     }
66 }
```

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{ } ;

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RUN ▶

OUTPUT

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

← Code Playground



```
1 import java.util.Scanner;  
2  
3 public class DemoTranslation {  
4     public static void main(String[] args) {  
5         int n;  
6         float sum;  
7         int count;  
8  
9  
10    System.out.print("\nEnter total number of  
11    terms :: ");  
12    n = STDIN_SCANNER.nextInt();  
13  
14  
15    sum = 0.0f;  
16  
17  
18    count = 1;  
19    for(int i = 1; i <= n; i++) {  
20        sum = sum + (float)Math.pow(count, 2) /  
21        (float)Math.pow(count, 3);  
22        count += 2;  
23    }  
24  
25    System.out.printf("\nSum of the series is ::  
26    %f\n", sum);  
27  
28    public final static Scanner STDIN_SCANNER = new  
29    Scanner(System.in);  
30}
```

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}

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RUN



OUTPUT

Enter total number of terms ::

```
Exception in thread "main"
java.util.NoSuchElementException
    at java.base/
java.util.Scanner.throwFor(Scanner.java:937)
    at java.base/
java.util.Scanner.next(Scanner.java:1594)
    at java.base/
java.util.Scanner.nextInt(Scanner.java:2258)
    at java.base/
java.util.Scanner.nextInt(Scanner.java:2212)
    at
DemoTranslation.main(DemoTranslation.java:12)
```