[[[1]]]

```
import java.util.Scanner;
public class Task1 {
	public static void main(String [] args) {

		Scanner input = new Scanner(System.in);
		System.out.print("Enter array size : ");
		int size = input.nextInt();
		System.out.print("Enter array elements : ");

		int [] array = new int [size];
		for(int i = 0 ; i < size ; i++) {
			array[i] = input.nextInt();
		}
		input.close();

		int [] rev = new int [size];
		rev = reverseArray (array,size);
		System.out.print("Reverse array : ");
		printArray(rev,size);
	}
	public static int[] reverseArray (int [] arr,int size) {
		int [] reverse = new int [size];
		for(int i = 0 , j = size -1 ; i < size ; i++ , j--) {
			reverse[j] = arr[i] ;
		}
		return reverse ;
	}
	public static void printArray (int [] arr , int size) {
		for(int i = 0 ; i < size ; i++) {
			System.out.print(arr[i]+ " ");
		}
	}
}
```

[[[2]]]

```
import java.util.Scanner;
public class Task2 {
	public static void main(String[] args) {

		Scanner input = new Scanner (System.in);
		int size = 0 , inputElement ;
		int [] arr = new int [100] ;
		System.out.print("Enter array elements [positive] : ");
		do {
			inputElement = input.nextInt();
			arr[size] = inputElement ;
			size++;
		} while(inputElement!=0);

		input.close();
```

```
                countOccurence(arr,size-1);
        }
        public static void countOccurence(int [] Arr , int size) {
                for(int i = 1 ; i <= 100 ; i++) {
                        int count = 0 ;
                        for(int j = 0 ; j < size ; j++) {
                                if(Arr[j] == i) {
                                count++ ;
                                }
                        }
                        if(count!= 0) {
                                System.out.println(i+" occurs " +count+ " times");
                        }
                }
        }
}
```

[[[3]]]

```
import java.util.Scanner;
public class Task3 {
        public static void main(String [] args) {

                Scanner input = new Scanner (System.in);
                int [] array = new int [10];
                int count = 0 , number ;
                System.out.print("Enter array elements : ");

                for(int i = 0 ; i < 10 ; i++) {
                        number = input.nextInt();

                        if(isDistinct(array,number)) {
                                array[count] = number ;
                                count++ ;
                        }
                }
                System.out.println("Total distinct numbers : " +count);
                System.out.print("Distinct numbers : ");

                for(int i = 0 ; i < array.length ; i++) {
                        if(array[i] > 0) {
                                System.out.print(" " +array[i]);
                        }
                }
        }
        public static boolean isDistinct (int [] arr , int num) {
                for(int i = 0 ; i < arr.length ; i++) {
                        if(num == arr[i]) {
                                return false ;
                        }
                }
                return true ;
```

```
	}
}
[[[4]]]
public class Task4 {
	public static void main (String[] args) {

		final int NUMBEROFPRIMES = 50 ;
		int number = 3 ;
		boolean flag = true ;

		System.out.print("First " +NUMBEROFPRIMES+ " prime numbers are : 2
");
		for(int i = 2 ; i < NUMBEROFPRIMES ; ) {
			for(int j = 2 ; j < Math.sqrt(number) ; j++) {

				if(number % j == 0) {
					flag = false ;
					break ;
				}
			}
			if(flag) {
				System.out.print(number+ " ");
				i++ ;
			}
			number++ ;
			flag = true ;
		}
	}
}
[[[5]]]
public class Task5 {
	public static void main(String[] args) {

		int [] arr = new int [100] ;
		int [] digits = new int [10] ;
		int count = 0 ;

		for(int i = 0 ; i < 100 ; i++) {
			arr[i] = (int)(Math.random()*10) ;
		}

		for(int i = 0 ; i < 10 ; i++) {
			for(int j = 0 ; j < 100 ; j++) {
				if(i == arr[j]) {
					count++ ;
				}
			}
			digits[i] = count ;
			System.out.println(i+ " found " +digits[i]+ " times.");
			count = 0 ;
```

```
                }
        }
}
[[[6]]]
import java.util.Scanner ;
public class Task6 {
        public static void main(String[] args) {

                Scanner input = new Scanner (System.in);
                System.out.print("Enter array size : ");
                int size = input.nextInt();

                double [] arr = new double [size];
                System.out.print("Enter array elements : ");
                for(int i = 0 ; i < size ; i++) {
                        arr[i] = input.nextDouble();
                }
                System.out.println("Average of the array elements are : "
+average(arr));
        }
        public static int average (int [] array) {
                int sum = 0 ;
                for(int i = 0 ; i < array.length ; i++) {
                        sum+= array[i] ;
                }
                return sum / array.length ;
        }
        public static double average (double [] array) {
                double sum = 0 ;
                for(int i = 0 ; i < array.length ; i++) {
                        sum+= array[i] ;
                }
                return sum / array.length ;
        }
}
[[[7]]]
import java.util.Scanner ;
public class Task7 {
        public static void main(String[] args) {

                Scanner input = new Scanner (System.in);
                System.out.print("Enter array size : ");
                int size = input.nextInt();
                int [] arr = new int [size] ;

                System.out.print("Enter elements : ");
                for(int i = 0 ; i < size ; i++) {
                        arr[i] = input.nextInt();
                }
                System.out.println(isSorted(arr)? "List is sorted" : "List is not
```

```
sorted.");
        }
        public static boolean isSorted (int [] List) {

                for(int i = 0 ; i < List.length-1; i++) {
                        if(List[i] > List[i+1]) {
                                return false ;
                        }
                } return true ;
        }
}
[[[8]]]
import java.util.Scanner ;
public class Task8 {
        public static void main(String[] args) {

                Scanner input = new Scanner (System.in);
                System.out.print("Enter array1 size : ");
                int size1 = input.nextInt();
                int [] arr1 = new int [size1] ;

                System.out.print("Enter array2 size : ");
                int size2 = input.nextInt();
                int [] arr2 = new int [size2] ;

                System.out.print("Enter first array elements : ");
                for(int i = 0 ; i < size1 ; i++) {
                        arr1[i] = input.nextInt();
                }
                System.out.print("Enter second array elements : ");
                for(int i = 0 ; i < size2 ; i++) {
                        arr2[i] = input.nextInt();
                }
                System.out.println(equals(arr1,arr2)? "Lists are identical" : "List
are not identical");
        }
        public static boolean equals (int [] List1 , int [] List2) {

                if(List1.length != List2.length) {
                        return false ;
                }
                for(int i = 0 ; i < List1.length ; i++) {
                        if(List1[i] != List2[i]) {
                                return false ;
                        }
                } return true ;
        }
}
[[[9]]]
import java.util.Scanner ;
```

```
public class Task9 {
        public static void main(String [] args) {

                Scanner input = new Scanner (System.in);
                System.out.print("Enter the number of values : ");
                int size = input.nextInt();
                int [] arr = new int [size];

                System.out.print("Enter values : ");
                for(int i = 0 ; i < size ; i++) {
                        arr[i] = input.nextInt();
                }
                System.out.println(isConsecutiveFour(arr)? "List has consecutive
four" : "List has no consecutive four");
        }
        public static boolean isConsecutiveFour(int [] values) {
                for(int i = 0 ; i < values.length-1 ; i++) {
                        if(values[i] == values[i+1] &&
                           values[i] == values[i+2] &&
                           values[i] == values[i+3] ) {
                                return true ;
                        }
                } return false ;
        }
}
```