1. Find out the number of days in between two given dates?

```
public class DateDifference {
  public static void main(String[] args) throws ParseException {
        // TODO Auto-generated method stub
        SimpleDateFormat format = new SimpleDateFormat("mm-dd-yy hh:mm:ss");
        //Date date1 =new Date("12-02-2014");
        //Date date2 =new Date("22-02-2014");
        Date dateA = format.parse("10-11-2015 07:49:48");
        Date dateB = format.parse("12-02-2016 09:29:58");
        long difference = dateA.getTime()- dateB.getTime();
        long diffSeconds = difference / 1000;
        long diffMinutes = difference / (60 * 1000);
        long diffHours = difference / (60 * 60 * 1000);
        long diffDays = difference / (24* 60 * 60 * 1000);
        System.out.println("Date difference between "+dateA +" and "+dateB +" is:-");
        System.out.print(diffDays+" Days ");
        System.out.print(": "+diffHours%24+" Hours ");
        System.out.print(": "+diffMinutes%60+" Minutes");
        System.out.print(": "+diffSeconds%60+" Seconds ");
  }
 Date difference between Sun Jan 11 07:49:48 PST 2015 and Sat Jan 02 09:29:58 PST 2016 is:-
 -356 Days : -1 Hours : -40 Minutes : -10 Seconds
```

2. How to divide a number by 2 without using / operator?

```
break;
  }
  if (num==2){
         half = 1.0;
         break;
  if (counter==i){
         half = i;
         break;
  if (counter==i+1){
         half = i+0.5;
         break;
  }
  counter --;
}
System.out.println(num +" divided by 2 is: "+half);
  }
}
 27 divided by 2 is: 13.5
```

3. How to multiply a number by 2 without using * operator?

4. How to swap two variables, by using pass by reference method?

```
public class WrapInt {
```

```
private int value;
 public WrapInt(int value) {
       super();
       this.value = value;
 }
 public WrapInt(WrapInt wrapInt) {
       // TODO Auto-generated constructor stub
       this.value= wrapInt.getValue();
 }
 public int getValue() {
       return value;
 }
 public void setValue(int value) {
       this.value = value;
 }
 @Override
 public String toString() {
       // TODO Auto-generated method stub
       return String.valueOf(value);
 }
 public static void main(String[] args) {
       // TODO Auto-generated method stub
       WrapInt num1 = new WrapInt(25);
       WrapInt num2 = new WrapInt(26);
       System.out.println("Before swap Num1: "+num1+ "\tNum2: "+num2);
       swapVariables(num1 ,num2);
       System.out.println("After swap Num1: "+num1+ "\tNum2: "+num2);
 }
 private static void swapVariables(WrapInt wrapInt1, WrapInt wrapInt2) {
       // TODO Auto-generated method stub
       wrapInt1.setValue( wrapInt2.getValue());
       wrapInt2.setValue(wrapInt2.getValue());
 }
Before swap Num1: 25
                           Num2 : 26
After swap Num1: 26
                          Num2 : 26
```

}

5. How to make a list immutable?

```
public class ListImmutable<E> extends LList<E>{
private final Node start;
private final Node end;
private final int size;
final LList<E> list;
  public ListImmutable(LList<E> list1) {
        super();
        // TODO Auto-generated constructor stub
        this.list=list1;
        this.start= list.getStart();
        this.end=list1.getEnd();
        this.size=list1.size;
  }
  @Override
  public Node getStart() {
        return start;
  }
  @Override
  public Node getEnd() {
        return end;
  }
  @Override
  public void setEnd(Node end) {
        // TODO Auto-generated method stub
        try {
                 throw new UnsupportedOperationException();
        } catch (UnsupportedOperationException e) {
                 // TODO Auto-generated catch block
                 String exceptionMsg = "The following Exception occurred when modifying the Immutable
list: ";
                 System.out.println(exceptionMsg);
                 e.printStackTrace();
        }
  }
  @Override
  public void addAtPos(int index, int data) {
        // TODO Auto-generated method stub
        try {
                 throw new UnsupportedOperationException();
```

```
} catch (UnsupportedOperationException e) {
                // TODO Auto-generated catch block
                String exceptionMsg = "The following Exception occurred when adding to the Immutable
list: ";
                System.out.println(exceptionMsg);
                e.printStackTrace();
        }
  }
  @Override
  public void add(int data) {
        // TODO Auto-generated method stub
        try {
                throw new UnsupportedOperationException();
        } catch (UnsupportedOperationException e) {
                // TODO Auto-generated catch block
                String exceptionMsg = "The following Exception occurred when modifying to the Immutable
list: ";
                System.out.println(exceptionMsg);
                e.printStackTrace();
        }
  }
  @Override
  public void remove(int data) {
        // TODO Auto-generated method stub
        try {
                throw new UnsupportedOperationException();
        } catch (UnsupportedOperationException e) {
                // TODO Auto-generated catch block
                String exceptionMsg = "The following Exception occurred when trying to remove elements
from the Immutable list: ";
                System.out.println(exceptionMsg);
                e.printStackTrace();
        }
  }
  @Override
  public int getSize() {
        // TODO Auto-generated method stub
        return size;
  }
  @Override
  public void setSize(int size) {
        // TODO Auto-generated method stub
        try {
                throw new UnsupportedOperationException();
```

```
} catch (UnsupportedOperationException e) {
                 // TODO Auto-generated catch block
                 String exceptionMsg = "The following Exception occurred when modifying the Immutable
list: ";
                 System.out.println(exceptionMsg);
                 e.printStackTrace();
        }
  }
  @Override
  public void setStart(Node start) {
         // TODO Auto-generated method stub
        try {
                 throw new UnsupportedOperationException();
        } catch (UnsupportedOperationException e) {
                 // TODO Auto-generated catch block
                 String exceptionMsg = "The following Exception occurred when modifying to the Immutable
list: ";
                 System.out.println(exceptionMsg);
                 e.printStackTrace();
        }
  }
  @Override
  public int[] toArray() {
        // TODO Auto-generated method stub
         Node ptr = start;
         int[] array = new int[size];
         for(int i = 0; i < size; i++){
                 array[i]=ptr.getData();
                 ptr=ptr.getLink();
        }
        return array;
  }
  public static void main(String[] args) {
        // TODO Auto-generated method stub
        // TODO Auto-generated method stub
                         LList<Integer> list = new LList<Integer>();
                         list.addAtPos(1, 3);
                         list.addAtPos(1,5);
                         //list = Collections.unmodifiableList(list);
                         //list.remove(1); //get Exception
                         System.out.println("Original list: "+Arrays.toString(list.toArray()));
                         ListImmutable<Integer> finallist= new ListImmutable<Integer>(list);
```

```
System.out.println("New immutable list create from original list:
"+Arrays.toString(finallist.toArray()));
                       try{
                               finallist.addAtPos(3,8);// get exception
                       }catch(Exception e){
                               e.printStackTrace();
                       }
                       finallist.remove(1);
                       list.addAtPos(1, 3);
                       list.addAtPos(1,5);
                        System.out.println("Mutable original list with new elements:
"+Arrays.toString(list.toArray()));
                        System.out.println("Immutable list created from original list:
"+Arrays.toString(finallist.toArray()));
                       //finallist.remove(1);
  }
  }
 Original list : [5, 3]
 New immutable list create from original list: [5, 3]
 The following Exception occurred when adding to the Immutable list:
 java.lang.UnsupportedOperationException
          at JavaTest.ListImmutable.addAtPos(ListImmutable.java:47)
          at JavaTest.ListImmutable.main(ListImmutable.java:140)
 The following Exception occurred when trying to remove elements from the Immutable list:
 java.lang.UnsupportedOperationException
          at JavaTest.ListImmutable.remove(ListImmutable.java:74)
          at JavaTest.ListImmutable.main(ListImmutable.java:144)
 Mutable original list with new elements : [5, 3, 5, 3]
 Immutable list created from original list: [5, 3]
```

6. Write a sample code to reverse Singly Linked List by iterating through it only once.

```
package JavaTest;

public class LList<E> {
    private Node start;
    private Node end;
    int size;
    public Node getStart() {
        return start;
    }
}
```

```
public Node getEnd() {
      return end;
}
public void setEnd(Node end) {
      this.end = end;
}
public void addAtPos(int index, int data){
      size++;
      if(index == 1){}
               if(start == null){
                       Node newNode = new Node(data, null);
                       start = newNode;
                       end = start;
                       end.setLink(null);
               }else{
                       Node newHead = new Node(data, start);
                       start=newHead;
               }
      index = index-1;
      Node newNode = new Node(data, null);
      Node ptr = start;
      for(int i = 1; i < size; i++){
               if (i==index){
                       Node tmp = ptr.getLink();
                       ptr.setLink(newNode);
                       newNode.setLink(tmp);
               }
               ptr=ptr.getLink();
      }
}
public void add(int data){
      Node ptr = new Node(data, null);
      end.setLink(ptr);
      //System.out.println(end.getData()+ end.getLink().getData());
      end = ptr;
      size++;
}
private void show() {
      // TODO Auto-generated method stub
      Node ptr= start;
      System.out.print("[");
      while(ptr.getLink()!=null){
               System.out.print(ptr.getData()+", ");
               ptr=ptr.getLink();
```

```
System.out.println(ptr.getData()+"]");
}
private void show(Node head) {
      // TODO Auto-generated method stub
      Node ptr= head;
      System.out.print("[ ");
      while(ptr.getLink()!=null){
               System.out.print(ptr.getData()+", ");
               ptr=ptr.getLink();
      System.out.println(ptr.getData()+"]");
}
private Node reverse(Node head){
      Node previous = null;
      Node current = head;
      end =head;
      Node next = null;
      Node tmp =null;
      while(current.getLink().getLink()!=null){
               next = current.getLink();
               current.setLink(previous);
               tmp = next.getLink();
               next.setLink(current);
               previous = next;
               current = tmp;
      }
      next = current.getLink();
      next.setLink(current);
      current.setLink(previous);
      start=next;
      //end=head;
      return next;
}
private void removeAtPos(int position){
      if(position == 0){
               start= start.getLink();
               return;
      }
```

```
position =position-1;
       Node ptr = start;
       //Node next = ptr.getLink();
       for(int i = 1; i < size;i++){
                if(i==position){
                         Node tmp = ptr.getLink().getLink();
                         ptr.setLink(tmp);
                         if(i==size-1){}
                                  end =ptr;
                        }
                         break;
               }
                ptr=ptr.getLink();
       }
       size--;
}
public void remove(int data){
       size--;
       Node ptr = start;
       for(int i = 1; i < size;i++){
                if(ptr.getLink().getData()==data){
                         Node tmp = ptr.getLink().getLink();
                         ptr.setLink(tmp);
                         break;
               }
                ptr=ptr.getLink();
      }
}
public static void main(String[] args) {
       LList<Integer> list = new LList<Integer>();
       list.addAtPos(1,5);
       list.addAtPos(1,7);
       list.addAtPos(2, 4);
       list.addAtPos(2, 8);
       System.out.print("Original list: ");list.show();
       list.reverse(list.getStart());
       System.out.print("After reversing : size "+list.size+" ");list.show();
       list.removeAtPos(3);
       System.out.print("List size after removing element at position 3 is: "+list.size+" ");list.show();
       list.add(3);
       list.add(9);
```

```
System.out.print("After adding 2 new elements: "+list.size+" ");list.show();
       System.out.print("Before removing size is: "+list.size+" ");list.show();
       list.remove(3);
       System.out.print("After removing element value 3 : size: "+list.size+" ");list.show();
}
 public int getSize() {
       return size;
 public void setSize(int size) {
       this.size = size;
}
 public void setStart(Node start) {
       this.start = start;
}
 public int[] toArray() {
       // TODO Auto-generated method stub
       Node ptr = start;
       int[] array = new int[size];
       for(int i = 0; i < size; i++){
               array[i]=ptr.getData();
               ptr=ptr.getLink();
       }
       return array;
}
Original list: [ 7, 8, 4, 5 ]
After reversing : size 4 [ 5, 4, 8, 7 ]
List size after removing element at position 3 is: 3 [ 5, 4, 7 ]
After adding 2 new elements: 5 [ 5, 4, 7, 3, 9 ]
Before removing size is : 5 [ 5, 4, 7, 3, 9 ]
After removing element value 3 : size: 4 [ 5, 4, 7, 9 ]
```

7. Write a program to implement ArrayList and Linked list

Linked List implementation as above

```
public class ArraylistImpl<E>{
  private Object[] elementData;
  private int size;
  public ArraylistImpl(int initialCapacity){
        this.elementData=new Object[initialCapacity];
  }
  public ArraylistImpl(){
        this(10);
  }
  public ArraylistImpl(Collection<? extends E>c){
        elementData = c.toArray();
        size = elementData.length;
        if(elementData.getClass()!=Object[].class)
                 elementData = Arrays.copyOf(elementData,size, Object[].class);
  }
  public void ensureCapacity(int minCapacity){
        int oldCapacity = elementData.length;
        if(minCapacity> oldCapacity){
                 int newCapacity = (oldCapacity*3)/2+1;
                 if(newCapacity<minCapacity)</pre>
                         newCapacity=minCapacity;
                 elementData=Arrays.copyOf(elementData,newCapacity);
        }
  }
  public boolean add(E e){
        ensureCapacity(size+1);
        elementData[size++]=e;
        return true;
  }
  public void add(int index, E element){
        ensureCapacity(size+1);
        System.arraycopy(elementData, index, elementData, index+1, size-index);
        elementData[index] =element;
        size++;
  }
  public boolean addAll(Collection<? extends E>c){
        Object[] a = c.toArray();
        int newNum = a.length;
        ensureCapacity(size+newNum);
        System.arraycopy(a, 0, elementData,size,newNum);
```

```
size+=newNum;
      return newNum!=0;
}
public E remove(int value){
      E oldValue = null;
      for(int i = 0; i < size; i++){
              if(elementData[i] == Integer.valueOf(value)){
                       oldValue = elementData(i);
                       int numMoved =size-i-1;
                       if(numMoved > 0)
                               System.arraycopy(elementData, i+1, elementData, i, numMoved);
                       size--;
                       break;
              }
      }
      return oldValue;
}
public E removeAtIndex(int index){
      E oldValue = elementData(index);
      int numMoved =size-index-1;
      if(numMoved > 0)
               System.arraycopy(elementData, index+1, elementData, index, numMoved);
      size--;
      return oldValue;
}
private E elementData(int index) {
      // TODO Auto-generated method stub
      E e = (E) elementData[index];
      return e;
}
public void show(){
      System.out.print("[");
      for(int i =0;i<capacity()-1;i++){
              System.out.print(elementData[i]+",");
      }
      System.out.println(elementData[capacity()-1]+"]");
}
public void show(ArraylistImpI<E> list){
      System.out.print("[");
```

```
for(int i = 0; i < size - 1; i + +){
                  System.out.print(elementData[i]+",");
         System.out.println(elementData[size-1]+"]");
  }
  public int capacity() {
         // TODO Auto-generated method stub
         return elementData.length;
  }
  public int size() {
         // TODO Auto-generated method stub
         return size;
  }
  public static void main(String[] args) {
         // TODO Auto-generated method stub
         ArraylistImpl<Integer> alist = new ArraylistImpl<Integer>();
         alist.add(5);
         alist.add(8);
         alist.add(2, 4);
         System.out.print("The elements in the ArrayList are: ");alist.show();
         //Shows elements in index capacity
         System.out.println("Size is: "+alist.size());
                                   //insertion order preserved
         System.out.println("Capacity is: "+alist.capacity());
         System.out.print("The elements which are filled in the ArrayList are: ");alist.show(alist); //Shows
elements in size
         int a = alist.removeAtIndex(1);
         System.out.println("Removed at index 1 value: "+a);
         alist.show(alist);
         System.out.println("Size is: "+alist.size());
                                   //removes at index and returns value
         alist.add(9);
         alist.add(7);
         alist.show(alist);
         System.out.println("Size is: "+alist.size());
         a = alist.remove(9);
                                                                      //removes a value
         System.out.println("Removed value: "+a);
         System.out.println("Size after removing is: "+alist.size());
         System.out.print("The elements which are in the ArrayList are: ");alist.show(alist);
  }
}
```

8. Write a program for Insertion Sort in java.

```
public class InsertionSortDemo {
  public static void main(String[] args) {
         // TODO Auto-generated method stub
          * Time complexity of selection sort is O(n2)
         int[] a = {5,6,2,1,3,4};
         System.out.println("Before Insertion Sort: "+Arrays.toString(a));
         InsertionSort(a);
         System.out.println("After Insertion Sort: "+Arrays.toString(a));
  }
  static void InsertionSort(int[] a){
         int sizeOfList = a.length;
         for (int i = 0; i < sizeOfList-1; i++){
                  for(int j = i+1; j<sizeOfList;j++){</pre>
                           if (a[i] > a[j]){
                                    int temp = a[i];
                                    a[i]=a[j];
                                    a[j]= temp;
                           }
                  }
         }
```

```
Before Insertion Sort: [5, 6, 2, 1, 3, 4]
After Insertion Sort: [1, 2, 3, 4, 5, 6]
```

9. Write a program to get distinct word list from the given file.

```
public class DistinctWordsInFile {
  public static void main(String[] args) throws FileNotFoundException {
         // TODO Auto-generated method stub
         FileInputStream fs = new FileInputStream("C:\\Users\\MadhuBindu\\Desktop\\File.txt");
         Scanner in = new Scanner(fs);
         String text = in.useDelimiter("\\A").next();
         in.close(); // Put this call in a finally block
         String[] strArray = text.replaceAll("\\W", " ").split(" ");
         HashMap<String, Integer> hashmap= new HashMap<String, Integer>();
         for (int i = 0; i<strArray.length-1;i++){
                 int frequency=0;
                 for (int j = 1; j<strArray.length;j++){</pre>
                          if(strArray[i].equals(strArray[j])){
                                   hashmap.put(strArray[i], ++frequency);
                          }else{
                                   if(j==strArray.length-1){
                                           hashmap.put(strArray[j], 1);
                                   }
                          }
                 }
         }
         Iterator<Entry<String, Integer>> it = hashmap.entrySet().iterator();
         System.out.println("The following words are distinct in the file content: ");
         System.out.println();
         while (it.hasNext()) {
                 Map.Entry<String, Integer> keyValuepair = (Map.Entry<String, Integer>)it.next();
                  if(keyValuepair.getValue()>=1){
                          System.out.print( " "+keyValuepair.getKey()+" ");
                 }
         }
```

```
}

The following words are distinct in the file content:

'These' 'are' 'words' 'distinct'
```

10. Find longest substring without repeating characters.

```
public class LongestSubstring {
  public static void main(String[] args){
         String str = "iiijumpwontbeiiiiiiiwontbelazyiijumpwontbelazyjumpwontbelazy";
         System.out.println("String is :"+str);
         String longest =getLongestSubString(str);
         System.out.println();
         System.out.println("The longest substring in the string is: "+longest);
  private static String getLongestSubString(String str) {
         String charSubStr = "";
         String LongestSubStr = "";
         for (int i = 0; i < str.length(); i++) {
                 char c = str.charAt(i);
                 if (charSubStr.indexOf(c) == -1) {
                          charSubStr += c;
                          continue;
                 } else {
                          if(charSubStr.length()> LongestSubStr.length())
                                  LongestSubStr = charSubStr;
                          charSubStr = charSubStr.substring(charSubStr.indexOf(c) + 1) +c;
                 }
        }
         if(charSubStr.length() > LongestSubStr.length())
                 LongestSubStr = charSubStr;
         return LongestSubStr;
  }
```

```
}
String is :iiijumpwontbeiiiiiiiwontbelazyiijumpwontbelazyjumpwontbelazy
The longest substring in the string is : ijumpwontbelazy
```

11. Write a program to remove duplicates from sorted array

```
public class RemoveDupsInSortedArray {
  public static void main(String[] args) {
         // TODO Auto-generated method stub
         int[] myArray = {2,3,4,5,6,6,7};
         System.out.println("Original sorted array: "+Arrays.toString(myArray));
         myArray=removeDups(myArray);
         System.out.println("After removing duplicated the sorted array: "+Arrays.toString(myArray));
  }
  private static int[] removeDups(int[] myArray) {
         // TODO Auto-generated method stub
         int j = 0;
        int i = 1;
        if(myArray.length < 2){
        return myArray;
        }
        while(i < myArray.length){
        if(myArray[i] == myArray[j]){
                j++;
        }else{
                myArray[++j] = myArray[i++];
        }
        }
        int[] output = new int[j+1];
        for(int k=0; k<output.length; k++){</pre>
        output[k] = myArray[k];
        }
        return output;
 }
}
```

```
Original sorted array: [2, 3, 4, 5, 6, 6, 7]
After removing duplicated the sorted array: [2, 3, 4, 5, 6, 7]
```

12. Write a program to print fibonacci series.

```
package JavaTest;
import java.util.ArrayList;
import java.util.Arrays;
import java.util.List;
public class TestFib {
        public static void main(String[] args) {
        // TODO Auto-generated method stub
        int num =7;
        List<Integer> fibonacciSeries = new ArrayList<Integer>();
        for(int i = 0; i < num; i++)
        int fibonacciValue = fibonacci(i);
                 fibonacciSeries.add(i, fibonacciValue);
        System.out.println("Fibonacci Series of "+num +" is: "+Arrays.toString(fibonacciSeries.toArray()));
        private static int fibonacci(int i) {
        // TODO Auto-generated method stub
                  if(i <= 1)
                         return i;
                         else
                         return fibonacci(i-1) + fibonacci(i-2);
        }
  }
Fibonacci Series of 7 is: [0, 1, 1, 2, 3, 5, 8]
```

13. Write a program to find out duplicate characters in a string

```
public class FindDuplicate {
  public static void main(String[] args) {
         // TODO Auto-generated method stub
         HashMap<String, Integer> hashmap= new HashMap<String, Integer>();
         String str = "GopalaGopala";
         for (int i = 0; i < str.length(); i++){
                 int frequency=0;
                 for (int j = 0; j < str.length(); <math>j++){
                         if(str.charAt(i) == str.charAt(str.length()-j-1)){
                                 hashmap.put(String.valueOf(str.charAt(i)), ++frequency);
                         }
                }
        }
         Iterator<Entry<String, Integer>> it = hashmap.entrySet().iterator();
         boolean hasDuplicate = false;
         while (it.hasNext()) {
                Map.Entry<String, Integer> keyValuepair = (Map.Entry<String, Integer>)it.next();
                if((int)keyValuepair.getValue()>1){
                         hasDuplicate= true;
                         System.out.println("""+keyValuepair.getKey()+"" occurs "+keyValuepair.getValue()+
" times in "+str+""
                                         );
         String result = hasDuplicate==false ? "There is no duplicate in the word ""+ str+ """: "There is
duplicate in the word ""+ str+ """;
         System.out.println(result);
  }
}
 'p' occurs 2 times in 'GopalaGopala
 'a' occurs 4 times in 'GopalaGopala
 'G' occurs 2 times in 'GopalaGopala
 'l' occurs 2 times in 'GopalaGopala
 'o' occurs 2 times in 'GopalaGopala
 There is duplicate in the word 'GopalaGopala'
```

14. Write a program to create deadlock between two threads

```
public class DeadLockDemo {
    public static void main(String a[]){
```

```
// Test thread = new Test();
ArrayList<Product> myproducts = new ArrayList<Product>();

Product product1 = new Product("iPhone", 2);
Product product2 = new Product("Samsung", 2);
myproducts.add(product1);
myproducts.add(product2);
Producer producer = new Producer(myproducts);

Consumer consumer = new Consumer(myproducts);

producer.start();
consumer.start();
}
```

15. Find out middle index where sum of both ends are equal

System.out.println("Compared sum of left side "+leftSum+" with sum of right side

"+rightSum);

```
System.out.println("The middle index of the list is "+i);
                        break;
                }
                if(i==list.length-2){
                        System.out.println("Did not find median index in the list");
                        break;
                }
                leftSum = list[i]+leftSum;
        }
  }
}
List is: [9, 2, 2, 5, 6, 9, 2, 3, 4, 8, 1, 6, 0]
Compared sum of left side 24 with sum of right side 24
The middle index of the list is 5
16. Write a program to find the given number is Armstrong number or not?
public class ArmstrongNumberDemo {
  public static void main(String[] args) {
        // TODO Auto-generated method stub
int num = 371;
String result = isArmstrong(num)?"The number "+num+" is Armstrong Number":"The number "+num+" is not
Armstrong Number";
System.out.println(result);
  }
  private static boolean isArmstrong(int num) {
        // TODO Auto-generated method stub
        int numOfDigits = String.valueOf(num).split("").length;
        String[] nums = String.valueOf(num).split("");
        int sumOfDigitsPower =0;
```

System.out.println("Number of digits in "+num+": "+numOfDigits);

sumOfDigitsPower += Math.pow(digit, numOfDigits);

int digit = Integer.valueOf(nums[i]);

for(int i = 0; i<numOfDigits;i++){

return sumOfDigitsPower ==num;

}

}

System.out.println("The digits in the number "+num+": "+Arrays.toString(nums));

```
Number of digits in 371 : 3
The digits in the number 371 : [3, 7, 1]
The number 371 is Armstrong Number
```