## nagajyothi / InterviewBit

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Branch: master - InterviewBit / Arrays / LargestNumber.java
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Magajyothi few more solutions
                                                                                                                            7fccd91 on Oct 21, 2015
1 contributor
71 lines (65 sloc) 1.99 KB
        * Given a list of non negative integers, arrange them such that they form the largest number.
       For example:
       Given [3, 30, 34, 5, 9], the largest formed number is 9534330.
       Note: The result may be very large, so you need to return a string instead of an integer.
   9
  10
       import java.util.*;
       public class LargestNumber {
          // For example, given [3, 30, 34, 5, 9], the largest formed number is 9534330.
           public class Node implements Comparable<Node> {
               int number;
               public Node(int num) {
                   this.number = num;
               }
              @Override
               public int compareTo(Node that) {
                   String first = String.valueOf(this.number) + String.valueOf(that.number);
                   String second = String.valueOf(that.number) + String.valueOf(this.number);
                   return second.compareTo(first);
               }
           }
           public String largestNumber(final List<Integer> A) {
               StringBuffer result = new StringBuffer();
               Node num[];
               int i = 0;
  30
               num = new Node[A.size()];
               for(int n : A) {
                   num[i] = new Node(n);
                   i++;
               }
  36
               Arrays.sort(num);
  38
               for(Node n : num) {
                   if(n.number == 0 && result.length() != 0)
  40
                   result.append(n.number);
  41
  42
               }
  43
               return result.toString();
  44
  45
           public static void main(String[] args) {
  46
               List<Integer> A = new ArrayList<Integer>();
  47
               A.add(3);
  48
               A.add(30);
  49
               A.add(34);
               A.add(5);
               A.add(9);
               A.add(0);
               A.add(0);
               A.add(0);
               A.add(0);
```

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A.add(0);
           LargestNumber 1 = new LargestNumber();
58
          String result = 1.largestNumber(A);
           int flag = 0;
59
          for(int i = 0; i < result.length(); i++){</pre>
60
61
             if(result.charAt(i) != '0')
62
                  flag = 1;
          }
63
           if(flag == 1){
54
65
               System.out.println(1.largestNumber(A));
66
            }
67
           else {
68
               System.out.println("0");
69
70
      }
71 }
```

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