```
FIND THE NUMBER

            List<List<Integer>> res = new
ArrayList<List<Integer>>();
             int i=0;
             while(i<S.length()) {
                  List<Integer> arr = new ArrayList<Integer>();
                  int l = i;
                  for(int j=i;j<Math.min(S.length(), l+X);
j++,i++) {
                           int val = S.charAt(i) - '0';
                           if(!arr.contains(val))
                            arr.add(val);
                  }
                  Collections.sort(arr);
                  res.add(arr);
             }
             K--;
             ArrayList<Integer> result = new ArrayList<Integer>();
             for(int j = res.size()-1;j>=0;j--) {

                int index = res.get(j).size();
                int ele = res.get(j).get((int)(K%i
                result.add(ele);
                K = K/index;
             }
             Collections.reverse(result);
             StringBuilder str = new StringBuilder();
             for(int num: result) {
                  str.append(num);
             }
             return str.toString();
          }}

```

```
import java.io.*;
import java.util.*;


public class TestClass {
   public static void main(String[] args) throws IOException {
        BufferedReader br = new BufferedReader(new
InputStreamReader(System.in));
        PrintWriter wr = new PrintWriter(System.out);
        int n = Integer.parseInt(br.readLine().trim());
           String[] arr_p = br.readLine().split(" ");
           int[] p = new int[n];
           for (int i_p = 0; i_p < arr_p.length; i_p++) {
               p[i_p] = Integer.parseInt(arr_p[i_p]);
           }

```

```
16.          int out_ = solve(p);
17.          wr.println(out_);
18.
19.          wr.close();
20.          br.close();
21.      }
22.
23.      static int solve(int[] p)
24.      {
25.          int i,j,max=0;
26.          int n = p.length;
27.          int res[] = new int[n];
28.
29.          for(i=0;i<n;i++)
30.          {
31.              res[i] = p[i];
32.          }
33.
34.          for(i=1;i<n;i++)
35.          {
36.              for(j=0;j<i;j++)
37.              {
38.                  if(p[i]>p[j] && p[i]%p[j]==0 && res[i] <
   res[j]+p[i])
39.                  {
40.                      res[i] = res[j]+p[i];
41.                  }
42.              }
43.          }
44.
45.        for(i=0;i<n;i++)
46.        {
47.            if(max <= res[i])
48.            {
49.                max = res[i];
50.                //System.out.println(max);
51.            }
52.        }
53.       return max;
54.
55.      }
56.   }
```