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1
2  /**
3   A PROGRAM TO FIND THE LUCKY NUMBERS WITHIN A RANGE (1 -> n)
4   i.e,n -> INPUTED NUMBER.
5  */
6  //SUCHIT TE XII A
7  import java.util.*;
8  public class LuckyNumber
9  {
10     public static void main()
11     {
12         Scanner sc=new Scanner(System.in);
13         System.out.println("A PROGRAM TO FIND LUCKY NUMBERS WITHIN A R
14 ANGE");
15         System.out.println("ENTER THE HIGHER LIMIT OF THE RANGE");
16         int n=sc.nextInt();
17         LuckyNumber obj=new LuckyNumber();
18         //TO CREATE A STRING WHICH STORES THE RANGE OF DIGITS
19         String str="";
20         for(int i=1;i<=n;i++)
21         {
22             str=str+Integer.toString(i)+" ";
23         }
24         //LOOP TO FIND LUCKY NUMBERS
25         int flag=2;
26         int ctr=0;
27         for(int i=1;i<=n;i++)
28         {
29             if(i>flag )
30             {
31                 break;
32             }
33             String temp="";
34             String hold=""; //HOLDS CHARACTER DURING ITERATION HELPS I
35 MPROVE EFFICIENCY DURING DELETION
36             int length=0; //STORES LENGTH TEMPORARILY AND HELPS DURI
37 NG DELETION.
38             for(int j=0;j<str.length();j++)
39             {
40                 char ch=str.charAt(j);
41                 if(ch==' ')
42                 {
43                     ctr++;
44                     if(ctr!=flag)
45                     {
46                         temp=temp+' ';
47                         length++;
48                     }
49                     else if(ctr==flag)
50                     {
51                         temp=temp.substring(0,(length-(hold.length())))
52 );
53                         flag=flag+(i+1);
54                         length=length-(hold.length());
55 
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51         }
52         hold="";
53     }
54     else
55     {
56         hold=hold+ch;
57         temp=temp+ch;
58         length++;
59     }
60 }
61 //UPDATE FOR NEXT ITERATION
62 flag=i+2;
63 ctr=0;
64 str=temp;
65 temp="";
66 }
67 System.out.println("THE LUCKY NUMBER BELOW "+n+" ARE :");
68 System.out.println(str);
69 }
70 }
71 }
```