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1
2  /**
3   A PROGRAM TO INPUT A SECURITY CODE OF MAXIMUM 6 ALPHABETS BETWEEN A
   AND K
4   AND CHECK ITS VALIDITY BY GIVING APPROPRIATE MESSAGES IF THE CODE D
   OES NOT
5   FOLLOW THE FOLLOWING RULES :
6   - ONLY UPPERCASE ALPHABETS
7   - NO REPETITION OF ALPHABETS
8   - LENGTH OF CODE NOT EXCEED 6 ALPHABETS
9   - IF THE CODE LENGTH SPECIFIED DOES NOT MATCH THE INPUTED CODE
10  - ALPHABETS NOT TO BE CONSECUTIVE i.e, ABC - > INVALID!
11  */
12  //SUCHIT TE XII A
13  import java.util.*;
14  public class SecurityCode
15  {
16      public static void main()
17      {
18          Scanner sc=new Scanner(System.in);
19          System.out.println("PLEASE ENTER THE SIZE OF CODE");
20          int length = sc.nextInt();
21          if(length>6)
22          {
23              System.out.println("INVALID ! LENGTH OF CODE SHOULD NOT EX
CEED 6 CHARACTERS");
24              System.exit(0);
25          }
26          System.out.println("PLEASE ENTER YOUR SECURITY CODE");
27          String code=sc.next();
28          if(length!=code.length())
29          {
30              System.out.println("INVALID ! CODE SIZE NOT THE SAME AS SP
ECIFIED");
31          }
32          for(int i=0;i<(code.length()-1);i++)
33          {
34              char ch1=code.charAt(i);
35              char ch2=code.charAt(i+1);
36              if(Character.isLowerCase(ch1)||Character.isLowerCase(ch2))
37              {
38                  System.out.println("INVALID ! ALL CHARACTERS IN CODE S
HOULD BE OF UPPER-CASE");
39                  System.exit(0);
40              }
41              else if(((int)ch1-(int)ch2) == 0)
42              {
43                  System.out.println("INVALID ! REPETITION OF CHARACTERS
NOT PERMITTED");
44                  System.exit(0);
45              }
46              else if(((int)ch1-(int)ch2) == 1 || ((int)ch1-(int)ch2) ==
-1)
47              {
```

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48         System.out.println("INVALID ! CONSECUTIVE CHARACTERS NOT  
OT PERMITTED");  
49         System.exit(0);  
50     }  
51 }  
52     System.out.println("VALID CODE");  
53 }  
54 }  
55
```