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ONLINE EDITOR (A)

Distinct Alphabets

+ Problem Description

We are all familiar with alpha numeric keypad that was used for messaging in earlier days. Given seguence of numbers 2-9 (both inclusive), find out the number of distinct alphabets that can be formed.

The rules of interpreting keypad strokes are as follows

- 1) Let's understand with example. 25 can mean AJ but it can also mean pressing button 5 two times. In that case it becomes K. See Examples section for better understanding.
- 2) Maximum number of distinct alphabets that can be formed cannot exceed 26
- 3) Alphanumeric keyboard used is as follows
- · key 2 has letters "A B C"
- · key 3 has letters "D E F"
- · key 4 has letters "G H I"
- · key 5 has letters "J K L"
- · key 6 has letters "M N O"
- · key 7 has letters "P Q R S"

- · key 8 has letters "T U V"
- · key 9 has letters "W X Y Z"
- 4) Input does not contain either 1 or 0 because no keypad buttons are associated with these numbers.
- + Constraints

1 <= Length of Input Literals <= 40

+ Input Format

Single Line contains a number with literals [2-9]

+ Output

Number of distinct alphabets after factoring all possible interpretations of the input

+

+ Explanation

Example 1

Input

253

Output

5

Explanation

It can be interpreted as AJD, KD, AE, thus distinct alphabets formed-A, J, D, K, E = 5 distinct alphabets.

Example 2

Input

294

Output	
5	
Unload Solution	n [Question : A]
Opioau Solution	I [Question : A]
I, vipul kumar conf	irm that the answer submitted is my own. Took help from online sources (attributions)
Choose a File	

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