Return-Codes

May 18, 2020

0.0.1 Problem statement

In an encryption system where ASCII lower case letters represent numbers in the pattern a=1, b=2, c=3... and so on, find out all the codes that are possible for a given input number.

Example 1

```
number = 123codes_possible = ["aw", "abc", "lc"]
```

Explanation: The codes are for the following number:

```
• 1 . 23 = "aw"
```

- 1.2.3 = "abc"
- 12 . 3 = "lc"

Example 2

```
number = 145codes_possible = ["ade", "ne"]
```

Return the codes in a list. The order of codes in the list is not important.

Note: you can assume that the input number will not contain any 0s

Show Solution

```
output.sort()
            solution.sort()
            if output == solution:
                print("Pass")
            else:
                print("Fail")
In [9]: number = 123
        solution = ['abc', 'aw', 'lc']
        test_case = [number, solution]
        test_function(test_case)
Pass
In [12]: number = 145
        solution = ['ade', 'ne']
         test_case = [number, solution]
         test_function(test_case)
Pass
In [11]: number = 1145
         solution = ['aade', 'ane', 'kde']
         test_case = [number, solution]
         test_function(test_case)
Pass
In [13]: number = 4545
        solution = ['dede']
         test_case = [number, solution]
         test_function(test_case)
```

Pass