InfyTQ SET 001

Solved Challenges **3/5**

Back To Challenges List

Pronic Integers in N

ID:8854 **Solved By 166 Users**

The program must accept an integer N as the input. The program must print all the pronic integers formed by series of continuously occurring digits (in the same order) in N as the output.
Note: The pronic integers must be printed in the order of their occurrence.
The pronic integers can be represented as n*(n+1).

Boundary Condition(s):
1 <= N <= 10^20

Input Format:
The first line contains N.

Output Format:
The first line contains the pronic integers separated by a space.

Example Input/Output 1:
Input:
93042861

Output:
930 30 0 42 2 6

Explanation:
30 * 31 = 930
5 * 6 = 30
0 * 1 = 0
6 * 7 = 42
1 * 2 = 2
2 * 3 = 6

Example Input/Output 2:
Input:
247025123524

Output:
2 702 0 2 12 2 2352 2

Max Execution Time Limit: 4000 millisecs

Ambiance

Python3 (3.x)

Reset

```
1  import math
2  num_str = input().strip()
3
4  for index in range(len(num_str)):
5      # if(num_str[index] == "0"):
6      #     print("0",end=" ")
7      #     continue
8      for grps in range(index+1,len(num_str)+1):
9          sq = int(math.sqrt(int(num_str[index:grps])))
10         if(sq*(sq+1) == int(num_str[index:grps])):
11             if(num_str[index]=="0" and int(num_str[index:grps]
12                 continue
13             print(int(num_str[index:grps]),end=" ")
```

Code did not pass the execution

TestCase ID: 40345

Input:

93042861

Expected Output:

930 30 0 42 2 6

Your Program Output:

930 30 0 42 42 2 6

Save Run

Run with a custom test case (Input/Output)