Let's name the string of digits $d_1 d_2 \ldots d_k$ alternating if the numbers at even and odd positions form two disjoint sets.

For example, 121212 and 01234567 are alternating, while 11 and 5435 are not.

Your program should find the longest alternating substring from a string of numbers. If there are several solutions, print the leftmost of them.

The input contains a string of numbers from 1 to 30000 characters long.

Print two integers $P$ and $L$ – the position and length of the alternating substring.

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**Sample input 1:**
7777

**Sample output 1:**
1 1

**Sample input 2:**
01234567802345

**Sample output 2:**
2 13