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The Virtual Learning Environment for Computer Programming

## The longest sequence

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Cinquè Concurs de Programació de la FME (2008-04-29)

You are given several natural numbers. Put some of the numbers side by side according to these rules:

- the resulting sequence must be increasing;
- there cannot be two even numbers together nor two odd numbers together.

Write a program such that, for every given line, prints the length of the longest sequence that can be produced according to the rules above using the numbers on that line.

#### Input

Input consists of several lines. Each line contains a sequence of natural numbers.

#### Output

For each line of the input, print a line with the length of the longest sequence that can be made according to the rules given above.

## Sample input

1	2	3	4	5	6	7					
8	8	8	5	5	3						
1(	000	00	00								
0	12	2 !	56	5	5	34	78	0	17	15	56

### Sample output

#### **Problem information**

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