

COCI '18 Contest 3 #1 Magnus

Time Limit: 1.0s **Memory Limit:** 64M

Magnus lost a game of chess to Kile so he found comfort in competitive programming. Very soon, he heard of the iconic COCI competition and decided to try his luck there.

He wrote a mail to Kile: *"Dear Kile, please, prepare me for COCI. Magnus"*.

Kile replied: *"You want to participate in COCI? All right, here's your warm-up task. A series of four consecutive letters of some word that make up the subword HONI (Croatian acronym for COCI) is called the HONI-block. I will send you the word of length N and you will throw out as many letters as you want (it might be none as well) so that in the end there are as many HONI-blocks as possible in the word. Kile"*.

Magnus was very worried and asked you, COCI competitive scene, for help. Help him determine the maximum number of HONI-blocks he can get in the final word.

Input Specification

The first line of input contains a word of length N ($1 \leq N \leq 100\,000$), consisting of uppercase letters of the English alphabet.

Output Specification

In the first and only line, print out the required number of HONI-blocks.

Sample Input 1

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MAGNUS
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Sample Output 1

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0
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Sample Input 2

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HHHHO000NNNNIIII
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Sample Output 2

1

Explanation for Sample Output 2

By throwing out three letters **H**, **O**, **N** and **I** Magnus can get the word **HONI**, which contains one HONI-block.

Sample Input 3

PROHODNIHODNIK

Sample Output 3

2