Muller tried many times to catch Stirlitz red-handed, but he all the time twisted. Once Stirlitz was looking through email. At this time, Mueller stealthily entered and saw how a meaningless set of characters appeared on his screen.

Encryption, Muller thought.

UTF-8, thought Stirlitz.

It is known that Stirlitz encrypts text with a simple algorithm: he repeatedly inserts two identical letters into an arbitrary place in the text. You must restore the source text. There are no two identical letters in a row in the source text.

The single line of input contains the Stirlitz encryption, consisting of lowercase Latin letters. The encryption length does not exceed 200000.

Print the recovered text.

Sample input:
wwstdaadierfflitzzz

Sample output:
stierlitz