Problem J. Jokewithpermutation

Input file: `joke.in`
Output file: `joke.out`

Joey had saved a permutation of integers from 1 to n in a text file. All the numbers were written as decimal numbers without leading spaces.

Then Joe made a practical joke on her: he removed all the spaces in the file.

Help Joey to restore the original permutation after the Joe's joke!

Input

The input file contains a single line with a single string — the Joey's permutation without spaces.

The Joey's permutation had at least 1 and at most 50 numbers.

Output

Write a line to the output file with the restored permutation. Don't forget the spaces!

If there are several possible original permutations, write any one of them.

Sample input and output

joke.in	joke.out
4111109876532	4 1 11 10 9 8 7 6 5 3 2