Problem 8: Defragmentation - A TESTING PROBLEM

Overview

Defragmentation is a process by which all of the files on a disk are moved physically on that disk so as to create a larger contiguous block of storage. This also creates a larger contiguous block of free space. Under certain circumstances, this may improve performance and/or allow you to store larger files.

Problem

In this problem, you will be given an array of non-negative numbers that represent data on the disk. Entries of 0 represent unused space. The problem is to remove the zeros from the array, preserving the order of the remaining elements.

Input

The input to this problem is a single line of non-negative integers, each consecutive pair separated by a single space. There will at least one and no more than fifty integers. All integers will be between 0 and 2047 inclusive. At least one number will be non-zero.

Output

The output is a single line of positive integers separated by a single space (with no leading or terminating spaces). The numbers in the output are the same as the numbers in the input, in the same order – with the exception that the zeros have been removed.

- over -
Example 1

Input
22 93 0 141 9 0 2

Output
22 93 141 9 2

Example 2

Input
33 21 22 33 33 6 0 9 0 2 552 171 0

Output
33 21 22 33 33 6 9 2 552 171

About TESTING PROBLEMS

YOU ARE NOT TO WRITE A SOLUTION TO THIS PROBLEM!!!!

Rather, a flawed solution to this problem exists on the web page referenced by the submission program on your desktop. You must determine an input set for which our solution gives the wrong answer. You will also need to supply the correct output for the input that you submit. Once you have determined these, you must fill in the fields on the web page and submit your answer.