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#### Ultra-QuickSort

Time Limit: 7000MS Memory Limit: 65536K **Total Submissions:** 77670 Accepted: 29135

# **Description**

In this problem, you have to analyze a particular sorting algorithm. The algorithm processes a sequence of n distinct integers by swapping two adjacent sequence elements until the sequence is sorted in ascending order. For the input sequence

91054,

Ultra-QuickSort produces the output 01459.

Your task is to determine how many swap operations Ultra-QuickSort needs to perform in order to sort a given input sequence.

## Input

The input contains several test cases. Every test case begins with a line that contains a single integer n < 500,000 -- the length of the input sequence. Each of the the following n lines contains a single integer  $0 \le a[i] \le$ 999,999,999, the i-th input sequence element. Input is

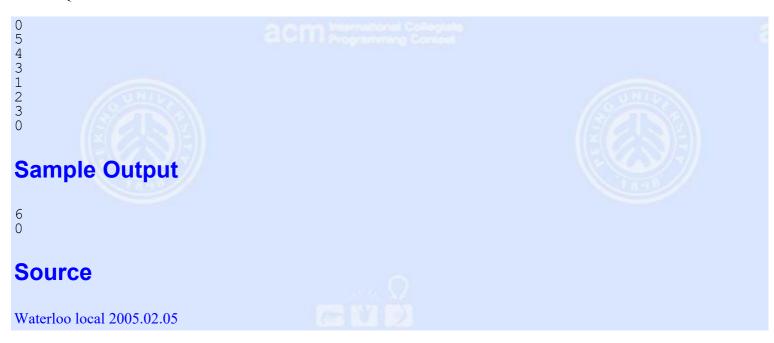
terminated by a sequence of length n = 0. This sequence must not be processed.



## **Output**

For every input sequence, your program prints a single line containing an integer number op, the minimum number of swap operations necessary to sort the given input sequence.

### Sample Input



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