## ISLANDS IN THE DATA STREAM

Given a sequence o integers a1, a2, a3, ..., an, an island in the sequence is a contiguous subsequence for which each element is greater than the elements immediately before and after the subsequence. In the examples below, each island in the sequence has a bracket below it. The bracket for an island contained within another island is below the bracket of the containing island.
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Write a program that takes as input a sequence of 15 non negative integers, in which each integer differs from the previous integer by at most 1, and outputs the number of islands in the sequence.

## Input

The first line of input contains a single integer $\boldsymbol{P},(\mathbf{1} \leq \boldsymbol{P} \leq \mathbf{1 0 0 0})$, which is the number of data sets that follow. Each data set should be processed identically and independently.

Each data set consists of a single line of input. It contains the data set number, $\boldsymbol{K}$, followed by 15 non negative integers separated by a single space. The first and last integers in the sequence will be 0 . Each integer will differ from the previous integer by at most 1 .

## Output

For each data set there is one line of output. The single output line consists of the data set number, $\boldsymbol{K}$, followed by a single space followed by the number of islands in the sequence.

## Examples

| № | stdin | stdout |
| :---: | :--- | :--- |
| 1 | 4 | 14 |
|  | 1001122110122110 | 27 |
|  | 2012343212343210 | 37 |
| 3010101010101010 | 47 |  |
| 4012345676543210 |  |  |

