## Problem I. Permutations again

| Input file: | standard input |
| :--- | :--- |
| Output file: | standard output |
| Time limit: | 1 second |
| Memory limit: | 256 megabytes |

Given a sequence $A_{i}$ consisting of $N$ integers. Find the number of pairs $(L, R)$ for which the subsegment $\left\{A_{L}, A_{L+1}, \ldots, A_{R}\right\}$ is a permutation of $R-L+1$ numbers.
A permutation of $K$ numbers is any sequence of numbers from 1 to $K$, where each element occurs only once.

## Input

The first line contains number $N$ - a sequence length. The second line contains $N$ integers - sequence $A_{i}$ elements.

$$
\begin{gathered}
1 \leq N \leq 10^{6} \\
1 \leq A_{i} \leq N
\end{gathered}
$$

## Output

Print the number of pairs $(L, R)$, fulfilling the condition.

## Example

| standard input |  | standard output |
| :--- | :--- | :--- |
| 3 | 1 | 2 |

