

## I - Interesting Sequences

For a sequence of integer numbers  $\langle x_1, x_2, ..., x_n \rangle$ , a contiguous subsequence  $\langle x_i, x_{i+1}, ..., x_j \rangle$  where  $i < j \le n$ , is called "interesting" if its first and last elements are equal (i.e.,  $x_i = x_j$ ). Two interesting subsequences  $S_1 = \langle x_i, x_{i+1}, ..., x_j \rangle$  and  $S_2 = \langle x_a, x_{a+1}, ..., x_b \rangle$  are called conflict-free if either  $a \ge j$  or  $i \ge b$ .

For a given sequence of known size, find the maximum number of interesting subsequences which are pairwise conflict-free.

## Input

The first line of input contains an integer T $\leq$ 100 denoting the number of test-cases. Each testcase begins with an integer 1 $\leq$ N $\leq$ 100,000, on a separate line, denoting the size of the sequence. The following line contains N positive integers each between 1 and 100,000 (inclusive).

## Output

For each test-case, output on a single line the maximum number of pairwise conflict-free interesting subsequences.

Sample Input	Sample Output
3	2
6	1
121312	2
4	
2 4 2 4	
9	
10 2 2 10 3 4 5 4 3	