## Problem H. Equal MEX

| Input file: | standard input |
| :--- | :--- |
| Output file: | standard output |
| Time limit: | 2 seconds |
| Memory limit: | 256 mebibytes |

You have an array $a_{1}, a_{2}, \ldots, a_{n}$.
You need to find the number of ways to split it into non-empty subsegments, such that all MEXes of these subsegments are equal. MEX of subsegment $[l \ldots r]$ is equal to minimal non-negative integer $x$, such that $x$ is not present at this segment.
As this number may be very big, you only need to output it modulo 998244353.

## Input

The first line of input contains one integer $t(1 \leq t \leq 300000)$ : the number of test cases.
The first line of each test case contains one integer $n(1 \leq n \leq 300000)$ : the number of integers in the given array. The next line of each testcase contains $n$ space-separated integers $a_{1}, a_{2}, \ldots, a_{n}\left(0 \leq a_{i} \leq n\right)$ : the given array.
It is guaranteed that the sum of $n$ is at most 300000 .

## Output

For each test case one integer: the number of ways to split a given array into non-empty subsegments with equal MEX, modulo 998244353.

## Example

|  | standard input |  | standard output |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 4 |  |  |  |  |  |  |
| 6 |  |  |  |  |  | 1 |
| 0 | 0 | 0 | 1 | 1 | 1 |  |
| 5 |  |  |  |  |  |  |
| 0 | 1 | 0 | 1 | 0 |  |  |
| 4 |  |  |  |  |  |  |
| 0 | 0 | 0 | 0 |  |  |  |
| 3 |  |  |  |  |  |  |
| 3 | 3 | 3 |  |  |  |  |

