

Another Contest 9 Problem 2 - Counting Down the Days

Time limit: 1.0s **Memory limit:** 256M

Nick is learning how to do yoga. Over the course of the next N days, he will pick a contiguous nonempty block of days and do yoga during all of them. Each day has a score associated with it. The *score* of the yoga interval is equal to the product of all the scores of the days when Nick did yoga.

Compute the maximum possible score Nick can get.

Constraints

$$1 \leq T \leq 10^5$$

$$1 \leq N \leq 10^6$$

The sum of N over all test cases is at most 10^6 .

$$|s_i| \leq 2$$

Input Specification

The first line contains a single positive integer, T , the number of test cases. T test cases follow.

Each test case starts with a line containing a single positive integer N . The next line contains N space-separated integers, the s_i values representing the scores of the N days in order.

Output Specification

Output the answers for the T test cases in order. There should be no blank lines in your output.

The answer for the i th test case should be on the i th line. If M is the maximum score that Nick can attain when doing yoga, output M modulo 998244353. **Note that you are trying to maximize M , not M modulo 998244353.**

Sample Input

```
2
3
2 -2 2
30
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
```

Sample Output

2

75497471