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Problem: Inversion

Description

Given a sequence of integers a_1 , a_2 , ..., a_n . A pair (i, j) is call an inversion if i < j and $a_i > a_j$. Compute the number Q of inversions

Input

- Line 1: contains a positive integer n (1 <= n <= 10⁶)
- Line 2: contains a₁, a₂, ..., a_n (0 <= a_i<= 10⁶)

Output

Write the value Q modulo 10⁹+7

Example

Input

6

324561

Output

6

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Sample TestCase

C 17

Write your Source code here 1

Source code

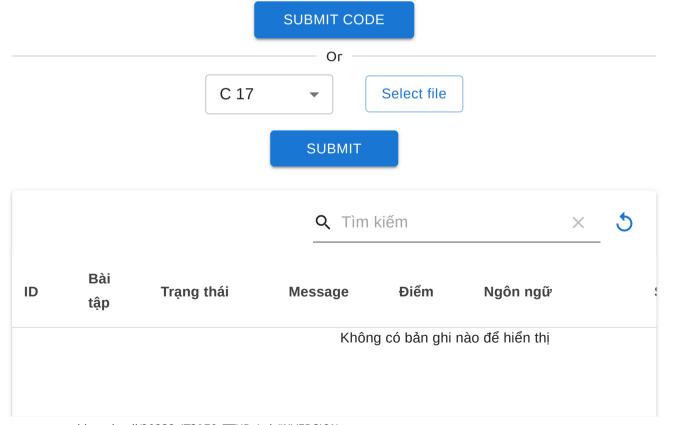
2 #include <stdio.h>

int main()

//C

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