

Contest Duration: 2025-11-08(Sat) 23:00 (<http://www.timeanddate.com/worldclock/fixedtime.html?iso=20251108T2100&p1=248>) - 2025-11-09(Sun) 00:40 (<http://www.timeanddate.com/worldclock/fixedtime.html?iso=20251108T2240&p1=248>) (local time) (100 minutes)

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F - Almost Sorted 2

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Time Limit: 2 sec / Memory Limit: 1024 MiB

Score : 500 points

Problem Statement

You are given an integer sequence $A = (A_1, A_2, \dots, A_N)$ of length N and a positive integer D .

Find the number, modulo 998244353, of integer sequences $B = (B_1, B_2, \dots, B_N)$ that can be obtained by rearranging A and satisfy the following condition:

- $B_{i+1} \geq B_i - D$ holds for all i ($1 \leq i \leq N - 1$).

Constraints

- $2 \leq N \leq 2 \times 10^5$
- $1 \leq D \leq 10^6$
- $1 \leq A_i \leq 10^6$
- All input values are integers.

Input

The input is given from Standard Input in the following format:

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N D
 A_1 A_2 \dots A_N

Output

Print the answer.

Sample Input 1

Copy

4 1
5 2 1 2

Copy

Sample Output 1

Copy

3

Copy

The integer sequences satisfying the condition are $(1, 2, 2, 5)$, $(2, 1, 2, 5)$, $(2, 2, 1, 5)$, which are three sequences.

Sample Input 2

Copy

5 10
20 40 60 80 100

Copy

Sample Output 2

Copy

1

Copy

Sample Input 3

Copy

15 12345
18270 31252 27543 31406 22271 13402 12279 25697 18349 27615 39360 22790 32581 23990 36154

Copy

Sample Output 3

Copy

858152905

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