

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.

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### 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.

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### 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 3615
```

Copy

### Sample Output 3

Copy

```
858152905
```

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/#telegram)

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