

Contest Duration: 2025-12-20(Sat) 23:00 (<http://www.timeanddate.com/worldclock/fixedtime.html?iso=20251220T2100&p1=248>) - 2025-12-21(Sun) 00:40 (<http://www.timeanddate.com/worldclock/fixedtime.html?iso=20251220T2240&p1=248>) (local time) (100 minutes)

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D - Sum of Differences

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Time Limit: 2 sec / Memory Limit: 1024 MiB

Score : 400 points

Problem Statement

You are given a length- N sequence of positive integers $A = (A_1, A_2, \dots, A_N)$ and a length- M sequence of positive integers $B = (B_1, B_2, \dots, B_M)$.

Find the value of $\sum_{i=1}^N \sum_{j=1}^M |A_i - B_j|$, modulo 998244353.

Constraints

- $1 \leq N, M \leq 3 \times 10^5$
- $1 \leq A_i, B_j < 998244353$
- All input values are integers.

Input

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

N	M		
A_1	A_2	\dots	A_N
B_1	B_2	\dots	B_M

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Output

Output the answer in one line.

Sample Input 1

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```
4 2
1 6 9 2
3 1
```

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Sample Output 1

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```
26
```

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The answer is $|1 - 3| + |1 - 1| + |6 - 3| + |6 - 1| + |9 - 3| + |9 - 1| + |2 - 3| + |2 - 1| = 2 + 0 + 3 + 5 + 6 + 8 + 1 + 1 = 26$.

Sample Input 2

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```
8 8
185991676 311812083 311812083 84357963 185991676 185991676 724020528 369175631
455049197 387671868 4361724 724020528 724020528 455049197 455049197 724020528
```

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Sample Output 2

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```
529117255
```

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#telegram)

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