

Problem L

Numbers Combination

You are given two integers, N and K . Determine the number of sequences of integers (A_1, A_2, \dots, A_N) that satisfy

- $1 \leq A_i \leq i$ for $1 \leq i \leq N$, and
- $A_1 + A_2 + \dots + A_N = K$.

Since the answer can be very large, calculate the answer modulo 998 244 353.

Input

Input consists of two integers N K ($1 \leq N \leq 100\,000$; $N \leq K \leq 200\,000$).

Output

Output in a line an integer representing the answer modulo 998 244 353.

Sample Input #1

3 5

Sample Output #1

2

Explanation for the sample input/output #1

The sequences that satisfy the requirements are $(1, 1, 3)$ and $(1, 2, 2)$.

Sample Input #2

5 6

Sample Output #2

4

Explanation for the sample input/output #2

The sequences that satisfy the requirements are: $(1, 1, 1, 1, 2)$, $(1, 1, 1, 2, 1)$, $(1, 1, 2, 1, 1)$, and $(1, 2, 1, 1, 1)$.

Sample Input #3

7 7

Sample Output #3

1

Explanation for the sample input/output #3

The only sequence that satisfy the requirements is (1, 1, 1, 1, 1, 1, 1).

Sample Input #4

1 2

Sample Output #4

0

Explanation for the sample input/output #4

There are no sequences that satisfy the requirements.

Sample Input #5

19014 86712

Sample Output #5

270258410