Problem F. Tea time in the grand garden

- Time Limit: 2 sec

Problem Statement

Appropriate temperature changes are essential for brewing delicious tea. Noli has been taught a recipe for delicious tea.

The recipe is represented by a sequence of non-negative integers $A = a_0, a_1, a_2, \ldots, a_N, a_{N+1}$ of length $N + 2$. She must change the temperature accordingly.

Raising the temperature is hard work. The cost of a recipe A is defined by the following $f(A)$.

$f(A) = \sum_{i=0}^{N} \max(0, a_{i+1} - a_i)$

Noli has forgotten the recipe she was taught. All she remembers is that $a_0 = a_{N+1} = 0$ and that the cost was K.

How many possible recipes can be considered? Find the remainder of the number of possible recipes divided by 998244353.

Note that two recipes are different when the values of a_i are different for any $i (0 \leq i \leq N + 1)$.

Input

N K

The input satisfies the following constraints.

- All inputs consist of integers.
- $1 \leq N \leq 2 \times 10^5$
- $0 \leq K \leq 2 \times 10^5$

Output

Output the remainder of the number of possible recipes divided by 998244353. Add a new line at the end of the output.

Sample Input 1	Sample Output 1
2 2	5

Sample Input 2	Sample Output 2
100 0	1

Sample Input 3	Sample Output 3
300 300	527212271

Sample Input 4	Sample Output 4
200000 200000	885086300

In Sample Input 1, There are five possible sequences A.

- {0,2,0,0}
- {0,0,2,0}
- {0,1,2,0}
- {0,2,1,0}
- {0,2,2,0}