

Problem D. Distinct Subsequences

Input file: `standard input`
Output file: `standard output`
Time limit: 6 seconds
Memory limit: 256 megabytes

Ethan has a binary string s of length n . He wants to give Justin a subsequence of s as a present for his birthday. To make the present special, he wants to make sure the length of the subsequence is exactly Justin's favorite number — k .

Compute the number of distinct presents Ethan could give to Justin. As this value may be large, compute the answer modulo 998244353.

Note: in this problem 'distinct' refers to the value of the subsequence. If a potential present appears as a subsequence of s in multiple locations it is counted exactly once.

Input

The first line of input contains two integers n and k ($1 \leq k \leq n \leq 2 \cdot 10^5$) — the length of string s and the length of the desired subsequence respectively.

The second line of input contains a binary string s of length n .

Output

Output the number of distinct subsequences of s of length k , modulo 998244353.

Examples

standard input	standard output
5 3 00110	5
12 8 000111000000	12
31 12 1110100111110110101111010100010	3985