Decimal Pyramid

Input file:	`standard input`
Output file:	`standard output`
Time limit:	3 seconds
Memory limit:	1024 megabytes

You are given a string S of length N consisting of the digits `1`, `2`, ..., `9`.

Consider a triangular pyramid made up of a total of $\frac{N(N+1)}{2}$ blocks.

The pyramid is divided into N layers, numbered $1, 2, \ldots, N$ from top to bottom. Layer i ($1 \leq i \leq N$) contains i blocks arranged in a single horizontal row from left to right. Each block has a string written on it. Let $C_{i,j}$ denote the string written on the j-th block from the left ($1 \leq j \leq i$) in layer i.

The strings $C_{i,j}$ satisfy the following conditions:

- If $i = N$, then $C_{i,j}$ is the string of length 1 consisting of the j-th character of S.
- If $1 \leq i < N$, then $C_{i,j}$ is the concatenation of $C_{i+1,j}$ and $C_{i+1,j+1}$, in this order.

Interpret $C_{1,1}$ as a decimal integer, and compute its value modulo 998244353.

Input

The input is given in the following format:

```
N
S
```

- N is an integer.
- $1 \leq N \leq 2 \times 10^5$.
- S is a string of length N consisting of the digits `1`, `2`, ..., `9`.

Output

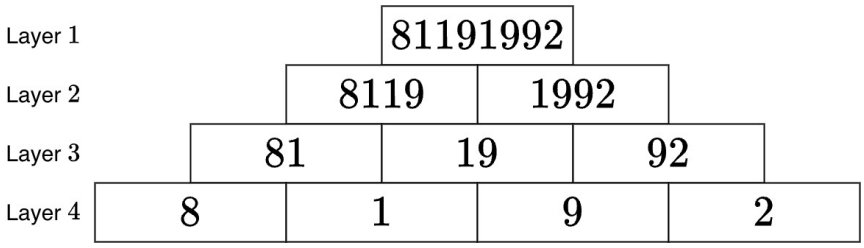
Output the answer.

Examples

standard input	standard output
4 8192	81191992
1 5	5
14 11123455678999	913063116

Note

In the first example, S = `8192`. By constructing the pyramid according to the rules, we obtain $C_{1,1}$ = `81191992`.



In the second example, $S = 5$. The pyramid consists of a single block, and $C_{1,1} = 5$.