

639. Decode Ways II

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A message containing letters from **A-Z** is being encoded to numbers using the following mapping way:

```
'A' -> 1
'B' -> 2
...
'Z' -> 26
```

Beyond that, now the encoded string can also contain the character '*', which can be treated as one of the numbers from 1 to 9.

Given the encoded message containing digits and the character '*', return the total number of ways to decode it.

Also, since the answer may be very large, you should return the output mod $10^9 + 7$.

Example 1:

Input: "*"

Output: 9

Explanation: The encoded message can be decoded to the string: "A", "B", "C", "D", "E", "F", "G", "H", "I".

Example 2:

Input: "1*"

Output: 9 + 9 = 18

Note:

1. The length of the input string will fit in range $[1, 10^5]$.
2. The input string will only contain the character '*' and digits '0' - '9'.

User Accepted:

89

User Tried:

280

Total Accepted:

91

Total Submissions:

861

Difficulty:

Hard