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共 100 分

✂ 判断题 (共 26 分)

13/13

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A. 单选题 (共 60 分)

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 程序填空题 (共 6 分)

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ƒn 函数题 (共 8 分)

0/1

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浙江大学2019-20学年春夏学期《高级数据结构与算法分析》课程期末考试试卷

◀ 返回

6-1 Decode (8分)

Suppose that a string of English letters is encoded into a string of numbers. To be more specific, `A` - `Z` are encoded into `0` - `25` . Since it is not a prefix code, the decoded result may not be unique. For example, `1213407` can be decoded as `BCBDEAH` , `MBDEAH` , `BCNEAH` , `BVDEAH` or `MNEAH` . Note that `07` is not `7` , hence cannot be decoded as `H` .

Your job is to tell in how many different ways we can decode a numeric string.

Format of function:

```
int Decode( char NumStr[] );
```

where `NumStr` is a string consisting of only the numbers `0` - `9` .

The function `Decode` is supposed to return the number of different ways we can decode `NumStr` .

Since the answer might be super large, you only need to output the answer modulo 1000000007.

Sample program of judge:

```
#include <stdio.h>
#include <string.h>

#define MAXN 100
#define BASE 1000000007

int Decode( char NumStr[] );

int main()
{
    char NumStr[MAXN];

    scanf("%s", NumStr);
    printf("%d", Decode(NumStr));

    return 0;
}

/* Your function will be put here */
```

Sample Input:

1213407

Sample Output:

5

C (gcc 6.5.0) | ▼ ⓘ ↶ ⚙ ⓘ

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