Given M strings you are required to find the count of all strings of length N that contain at least K strings from the M strings as substrings. You are required to answer the question above using brute force implemented using recursion.

### **Input Format**

- The first line will contain M, N, and K in this exact order.
- The next M lines will contain a string each

#### **Constraints**

- 1 <= M <= 7
- 1 <= N <= 7
- 1 <= K <= M
- 1 <= Length of the M strings <= N
- All strings will contain capital letters between A and E inclusive.

## **Output Format**

The number of strings satisfying the condition.

#### Sample Input 0

231

ΑE

AD

### Sample Output 0

20

### **Explanation 0**

The strings satisfying the condition are: AAD, AAE, ADA, ADB, ADC, ADD, ADE, AEA, AEB, AEC, AED, AEE, BAD, BAE, CAD, CAE, DAD, DAE, EAD, EAE

### Sample Input 1

232

AD

AEC

# Sample Output 1

0