

All of you know a bit or two about hashing. It involves mapping an element into a numerical value using some mathematical function. In this problem we will consider a very ‘simple minded hashing’. It involves assigning numerical value to the alphabets and summing these values of the characters.

For example, the string “acm” is mapped to $1 + 3 + 13 = 17$. Unfortunately, this method does not give one-to-one mapping. The string “adl” also maps to 17 ($1 + 4 + 12$). This is called collision.

In this problem you will have to find the number of strings of length L , which maps to an integer S , using the above hash function. You have to consider strings that have only lowercase letters in strictly ascending order.

Suppose $L = 3$ and $S = 10$, there are 4 such strings.

1. abg
2. acf
3. ade
4. bce

“agb” also produces 10 but the letters are not strictly in ascending order.

“bh” also produces 10 but it has 2 letters.

Input

There will be several cases. Each case consists of 2 integers L and S ($0 < L, S < 10000$). Input is terminated with 2 zeros.

Output

For each case, output ‘Case#:’ where # is replaced by case number. Then output the result. Follow the sample for exact format. The result will fit in 32 signed integers.

Sample Input

```
3 10
2 3
0 0
```

Sample Output

```
Case 1: 4
Case 2: 1
```