## **B. SHOPPERS**

Time limit: 0.15s Memory limit: 1536 MB

A group of N shoppers go to a supermarket. The supermarket has M items. Each shopper wants to buy only t he items he likes.

They plan to buy K items in all. A shopper can buy at max only one item. Some shoppers may not buy anythin g and some items might not be bought.

# Input

First line contains the number of test cases.

Each test case contains three integers N, M and K separated by spaces. Then follow N lines containing M ch aracters each.

If jth character of ith line is 1 then ith shopper likes item j.

1<= K <= N, M <=13

# **Output**

For each test case, output the number of ways K items in all can be bought.

# **Example**

# Input: 1 4 4 2 1111 0100 0100 1100 Output: 14

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