Problem - 100499J - Codeforces 08-07-20 07:23





HOME TOP CONTESTS GYM PROBLEMSET GROUPS RATING EDU API CALENDAR HELP ICPC CHALLENGE 2 10 YEARS! **

Please, try EDU on Codeforces! New educational section with videos, subtitles, texts, and problems.

PROBLEMS SUBMIT STATUS STANDINGS CUSTOM TEST

J. Healthy Recipes

time limit per test: 1 second memory limit per test: 256 megabytes input: standard input output: standard output

Over the last few months, Conan has trained very intensively for competing in the ACM/ICPC contest. What he did are just eating, sleeping and coding; as a result, he has put on quite a few kilos. Since the training period are about to finish, he is planning to come back to a healthier life style: going to the gym and eating more properly.

There are N delicious dishes, dish i has A_i calories. A recipe for a meal is the combination of dishes where each dish appears no more than 1. A perfect, healthy recipe should have the total calories of M calories.

Conan is planning his meals to details and he wonders will there be enough K different perfect recipes for the next K days. 2 recipes are considered different if there is at least a dish appears in one recipe but not the other.

Input

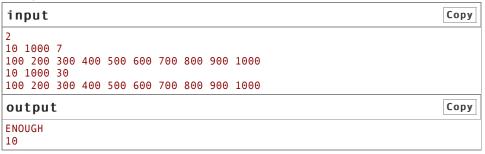
The input starts with the number T ($T \le 500$)- the number of tests. Then T tests follow.

- The first line of each test is 3 integers $N, M, K. (1 \le N \le 100, 0 \le M \le 10000, 1 \le K \le 100).$
- The second line of each test consist of N integers A_i . $(0 \le A_i \le 10000)$

Output

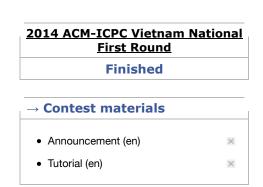
For each test, if there are at least K different perfect recipes, print "ENOUGH"; otherwise you should print the number of perfect recipes.

Examples



Note

All the dishes in 2 samples are similar. There are 10 different perfect recipes:



Problem - 100499J - Codeforces 08-07-20 07:23

1000 = 100 + 200 + 300 + 400

1000 = 100 + 200 + 700

1000 = 100 + 300 + 600

1000 = 100 + 400 + 500

1000 = 100 + 900

1000 = 200 + 300 + 500

1000 = 200 + 800

1000 = 300 + 700

1000 = 400 + 600

1000 = 1000

Codeforces (c) Copyright 2010-2020 Mike Mirzayanov The only programming contests Web 2.0 platform Server time: Jul/08/2020 07:22:34^{UTC-4} (f3).

Desktop version, switch to mobile version.

Privacy Policy

Supported by



