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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 ($T \leq 500$)- the number of tests. Then T tests follow.

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

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

input	Copy
<pre>2 10 1000 7 100 200 300 400 500 600 700 800 900 1000 10 1000 30 100 200 300 400 500 600 700 800 900 1000</pre>	
output	Copy
<pre>ENOUGH 10</pre>	

Note

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

2014 ACM-ICPC Vietnam National First Round

Finished

→ Contest materials

- Announcement (en) ✕
- Tutorial (en) ✕

$$1000 = 100 + 200 + 300 + 400$$

$$1000 = 100 + 200 + 700$$

$$1000 = 100 + 300 + 600$$

$$1000 = 100 + 400 + 500$$

$$1000 = 100 + 900$$

$$1000 = 200 + 300 + 500$$

$$1000 = 200 + 800$$

$$1000 = 300 + 700$$

$$1000 = 400 + 600$$

$$1000 = 1000$$

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