

# project groups

**HOD of CSE Dept. of MMMEC, asked the students to form the groups for their final year project.**

He said that there will be  $t$  students per team and there will be atleast 4 boys and atleast 1 girl per group.

A curious student Rajesh want to know the total number of ways by which the groups can be made.

Because he is busy in forming his group so you, write a program to find the total ways and help him.

## Input

First line contains an integer  $n$  which itself indicates number of test cases.

Each test case comprises of three space separated integers "B G t" . Where B denotes numer of boys ,G denotes number of girls in the class. And t denotes number of students in a group.

Constraints:

$$1 \leq n \leq 20$$

$$4 \leq B \leq 30$$

$$1 \leq G \leq 30$$

$$5 \leq t \leq B+G$$

## Output

For each test case print total number of ways per line.

## Example

**Input:**

2

4 1 5

30 30 20

**Output:**

1

4191318957352590