**Problem:**

Carol Danvers, Kamala Khan and Monica Rambeau each bring a number to you. Then Nick Fury gives a number N.

Your job is to find the Nth number in the given series. Take Carol’s number as 1st, Kamala’s as 2nd and Monica’s as 3rd number of the series.

The series goes as follows; 4th number is the sum of 1st, 2nd and 3rd; 5th number is the sum of 2nd, 3rd and 4th; and so on.

**Input:**

The first line of the input contains a single integer T denoting the number of test cases. The description of T test cases follows.

The first line of each test case contains 4 space separated integers.

The first 3 as Carol’s, Kamala’s and Monica’s number respectively. And the 4th one as N (Fury’s number).

**Output:**

For each test case, print a single line containing one integer – the Nth number of the series.

**Constraints:**

1 ≤ T ≤ 100

1 ≤ N ≤ 20

**Explanation:**

**Example 1:**

Series: 0, 1, 2, (0+1+2=)3, (1+2+3=)6, …

Here the 3rd number is 2

**Example 1:**

Series: 1, 2, 3, (1+2+3=)6, (2+3+6=)11…

Here the 4th number is 6