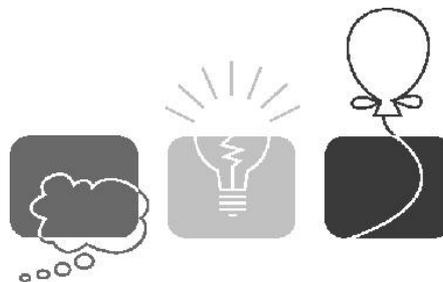


The 26<sup>th</sup> Annual  
ACM International Collegiate  
Programming Contest  
ASIA Regional - Taejon



acm International Collegiate  
Programming Contest

IBM event  
sponsor

## Practice Problem C

Adding 1s, 2s, and 3s  
Input: add.in

Integer 4 can be expressed as a sum of 1s, 2s, and 3s in seven different ways as follows:

1+1+1+1,  
1+1+2,  
1+2+1,  
2+1+1,  
2+2,  
1+3, and  
3+1.

Write a program that determines the number of ways in which a given integer can be expressed as a sum of 1s, 2s, and 3s. You may assume that the integer is positive and less than 11.

### Input

The input consists of  $T$  test cases. The number of test cases ( $T$ ) is given in the first line of the input file. Each test case consists of an integer written in a single line.

### Output

Print exactly one line for each test case. The line should contain an integer representing the number of ways.

### Sample Input (add.in)

### Output for the Sample Input

3	7
4	44
7	174
10	