Trophies
Input File: trophies.txt

You have too many trophies from all the various competitions you won in the past, and you want to store trophies on your trophy stand into a box to create space on the stand. All your trophies are rectangular prisms with the same dimensions, with bases of 1 cm by l cm, and you would like to determine the number of ways to fit your trophies in a rectangular box with dimensions l cm by s cm.

Input:

An integer, n, the number of lines.
For the next n lines:
Two space-separated integers, l, and s, the length ($2 < l < 10$) of each trophy (the width and height are 1 cm), and box side length ($1 < s < 100$).

Output:

For each line, print the number of possible ways to arrange the trophies in the box. Two arrangements are different if the final layout of the trophies are different; the order the trophies are placed in the box does not differentiate between arrangements.

Example Input:

1
2 4

Example Output:

5