1036. Lucky Tickets

Time limit: 2.0 second
Memory limit: 64 MB

You are given a number $1 \le N \le 50$. Every ticket has its $2N$-digit number. We call a ticket lucky, if the sum of its first N digits is equal to the sum of its last N digits. You are also given the sum of ALL digits in the number. Your task is to count an amount of lucky numbers, having the specified sum of ALL digits.

Input

Two space-separated numbers: N and S. Here S is the sum of all digits. Assume that $0 \le S \le 1000$.

Output

The amount of lucky tickets.

Sample

input	output
2 2	4

Notes

The tickets are 0101, 0110, 1001, 1010 in the example above