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## How Do I Love Thee? Let Me Count the Ways

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Write a program which asks the user to input a whole number (positive integer). The program should respond by printing out all the ways that smaller numbers could be used to add up to the user's number. Here is a sample of the way the user dialog might look:



Do you wish to quit the program (Y/N)? N

What is your number? -12.7

Illegal number; try again.

What is your number? 5

The ways of adding to 5 are:

1+4

1+1+3

1+1+1+2

1+1+1+1+1

1+2+2

2+3

Do you wish to quit the program (Y/N)? etc.....

The exact dialog and the order of output might vary in your program. However, you should avoid giving the same answer twice. For example, "1+4" and "4+1" are both the same answer.