

# Dice Cup



**Problem ID:** dicecup  
**CPU Time limit:** 1 second  
**Memory limit:** 1024 MB  
**Difficulty:** 1.3

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**License:**

In many table-top games it is common to use different dice to simulate random events. A “d” or “D” is used to indicate a die with a specific number of faces,  $d_4$  indicating a four-sided die, for example. If several dice of the same type are to be rolled, this is indicated by a leading number specifying the number of dice. Hence,  $2d_6$  means the player should roll two six-sided dice and sum the result face values.

## Task

Write a program to compute the most likely outcomes for the sum of two dice rolls. Assume each die has numbered faces starting at 1 and that each face has equal roll probability.

## Input

The input consists of a single line with two integer numbers,  $N, M$ , specifying the number of faces of the two dice.

## Constraints

$4 \leq N, M \leq 20$  Number of faces.

## Output

A line with the most likely outcome for the sum; in case of several outcomes with the same probability, they must be listed from lowest to highest value in separate lines.

### Sample Input 1

6 6

### Sample Output 1

7

### Sample Input 2

6 4

### Sample Output 2

5  
6  
7

### Sample Input 3

12 20

### Sample Output 3

13  
14  
15  
16  
17  
18  
19  
20  
21