## Introduction

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| |  | | --- | | problem **0** | | **Heronian Rectangles** | | y points | |  |
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Heron’s Formula for the area of a triangle with sides of (a, b, c) is:

A Heronian Triangle is a triangle where all values above (A, a, b, c) are integers.

For CodeWars, define a Heronian Rectangle as a rectangle with integer sides with the same area and perimeter as a Heronian Triangle. For example, the smallest Heronian Triangle is (3, 4, 5), but there is no corresponding Heronian Rectangle. The Heronian Triangle (5, 5, 6) has a perimeter of 16 and an area of 12. The corresponding Heronian Rectangle has side-lengths of (2, 6).

  

Your program should find all pairs of Heronian Triangles and Rectangles, for the provided range of the longest side of the triangle. For each pair, print the Triangle’s side-lengths in increasing order, followed by the Rectangle’s side-lengths in increasing order.

# Input

Range for the longest side of the Heronian Triangle:

6 13

# Output

Your program should output all triangle-rectangle pairs for the given range, one pair per line.

(5, 5, 6) (2, 6)

(10, 10, 12) (4, 12)

# Input 2

12 12

# Output 2

(10, 10, 12) (4, 12)