Perfect 2

Input file:	`standard input`
Output file:	`standard output`
Time limit:	10 seconds
Memory limit:	256 megabytes

A **proper divisor** of an integer n is a positive integer strictly less than n which evenly divides n. For example, the proper divisors of 6 are 1, 2 and 3.

Let $D(n)$ denote the sum of the proper divisors of an integer n. So $D(6) = 1+2+3 = 6$, $D(4) = 1+2 = 3$, and $D(7) = 1$. If $D(n)$ is less than n, we call n **deficient**. If $D(n)$ is equal to n, we call n **perfect**. If $D(n)$ is greater than n, we call n **abundant**.

Write a program that will read in two positive integers, A and B, and then display the number of **deficient**, **perfect** and **abundant** numbers (in this order) between A and B, inclusive of both A and B. The output values must be separated by a single space.

Examples

standard input	standard output
4 6	2 1 0
11 12	1 0 1
25 30	4 1 1