Harmonious numbers

Amicable numbers are pairs of numbers such that the sum of the proper divisors of each one is equal to the other. The smallest such pair of numbers is 220 and 284.

Your great aunt Maude has long believed that it is a fundamental error to consider 1 to be a proper divisor of any number¹, so she calls a pair of numbers *harmonious* if the sum of the proper divisors in her sense of either one is equal to the other. She has tasked you with providing a catalogue of all pairs of harmonious numbers where the smaller one is less than 2,000,000.

Task

Write a program that computes all such pairs and outputs them, one pair to a line, separated by a space, to stdout. The smaller number of each pair should be listed first, and there should be no duplicates.

(2 points, Individual)

¹She claims, quite reasonably, that if a is a proper divisor of n with ab = n then b should also be a proper divisor. So, since n is not considered a proper divisor of n, neither should 1 be.