

## Friendly numbers

Two positive integers  $M, N$  are given. It is required to find all “friendly” pairs of numbers on the segment  $[M; N]$ . A friendly number  $A$  is such a number  $B$  that it is equal to the sum of the divisors of  $A$ , excluding the value of  $A$ . And vice versa, the sum of the divisors of  $B$ , excluding  $B$ , is equal to  $A$ .  $A$  is not equal to  $B$ .

### Input

From the standard input device, two positive integers  $M$  ( $2 \leq M \leq 10^5$ ) and  $N$  ( $2 \leq M \leq N \leq 10^5$ ) are entered in the first line through the space.

### Output

It is required to derive all pairs of "friendly" numbers located on the segment  $[M; N]$ .

A pair of “friendly” numbers  $(E, F)$  must be output before a pair of “friendly” numbers  $(K, P)$ , when the minimum element of a pair of “friendly” numbers  $(E, F)$  is less than the minimum element of a pair of “friendly” numbers  $(K, P)$ .

The number  $E$  in a pair of "friendly" numbers  $(E, F)$  must be derived earlier than the number  $F$  from the same pair, when  $E$  is less than  $F$ .

**The numbers in the pair must be separated by a space; no space is required after the second member of the pair.**

### Sample Input

210 294

### Sample Output

220 284

### Note

Try to implement the *getSumOfDivisors(n)* function, which takes the number  $n$  and returns the sum of the divisors of the number  $n$ , except for  $n$  itself.