

# Project Euler #52: Permuted multiples

This problem is a programming version of [Problem 52](#) from [projecteuler.net](#)

It can be seen that the number, **125874**, and its double, **251748**, contain exactly the same digits, but in a different order.

Given  $N$ , find all the positive integers,  $x \leq N$ , such that  $x, 2x, \dots, Kx$  contain the same digits.

## Input Format

Input contains two integers  $N$  and  $K$

## Constraints

$$125875 \leq N \leq 2000000$$

$$2 \leq K \leq 6$$

## Output Format

Print all the  $K$  multiple corresponding to the test case. If there are more than 1  $x$  print each of them in a new line.

**Note1:** It is guaranteed a solution exists.

**Note2:** You should not consider solution with leading 0's.

## Sample Input

```
125875 2
```

## Sample Output

```
125874 251748
```