

Project Euler #38: Pandigital multiples

This problem is a programming version of [Problem 38](#) from [projecteuler.net](#)

Take the number **192** and multiply it by each of **1, 2, and 3**:

$$\begin{aligned} 192 \times 1 &= 192 \\ 192 \times 2 &= 384 \\ 192 \times 3 &= 576 \end{aligned}$$

By concatenating each product we get the **1** to **9** pandigital, **192384576**. We will call **192384576** the concatenated product of **192** and **(1, 2, 3)**

The same can be achieved by starting with **9** and multiplying by **1, 2, 3, 4, and 5**, giving the pandigital, **918273645**, which is the concatenated product of **9** and **(1, 2, 3, 4, 5)**. Let's call 9 as the Multiplier **M**

The similar process can be shown for **1** to **8** pandigital also. **18** when multiplied by **1, 2, 3, 4** gives **18365472** which is **1 – 8** pandigital.

You are given **N** and **K** where **K = 8** or **9**, find the multipliers for that given **K** below **N** and print them in ascending order.

Input Format

Input contains two integer **N** and **K**.

Constraints

$$\begin{aligned} 100 &\leq N \leq 10^5 \\ 8 &\leq K \leq 9 \\ 1 &< M \end{aligned}$$

Output Format

Print the answer corresponding to the test case.

Sample Input

100 8

Sample Output

18
78