## Project Euler \#47: Distinct primes factors

This problem is a programming version of Problem 47 from projecteuler.net
The first two consecutive numbers to have two distinct prime factors are:

$$
\begin{aligned}
& 14=2 \times 7 \\
& 15=3 \times 5
\end{aligned}
$$

The first three consecutive numbers to have three distinct prime factors are:

$$
\begin{gathered}
644=2^{2} \times 7 \times 23 \\
645=3 \times 5 \times 43 \\
646=2 \times 17 \times 19
\end{gathered}
$$

Given $N$ find all the $K$ consecutive integers, where first integer is $\leq N$ to have exactly $K$ distinct prime factors. Print the first of these numbers in ascending order.

## Input Format

Input contains two integers $N$ and $K$.

## Output Format

Print the answer corresponding to the test case. Print each integer in a new line.

## Constraints

$20 \leq N \leq 2 \times 10^{6}$
$2 \leq K \leq 4$

## Sample Input\#00

```
20 2
```


## Sample Output\#00

```
14
20
```


## Sample Input\#01

```
64 3
```


## Sample Output

