

## Problem 2. K-multiple

Ivancho is back to school. This time, his Informatics teacher has given a problem for A. Like all the students he wants to improve his marks. Now, Ivancho is asking for help with this problem, as he finds it a bit difficult.

Here is the statement. For two given numbers, your program needs to answer the question – which is the K-th lowest common multiple.

**Input:** The first line of the input file **kmul.in** contains two integers a and b, not greater than  $10^6$ . The second line contains a number K, not greater than 1000.

**Output:** The output file **kmul.out** must contain one integer – the K-th lowest common multiple of a and b.

**TIME LIMIT – 2 sec**

**Note:** You can scan from a file and print into a file by using an operator for that. You can use operator freopen including fstream library and adding the following two lines in the beginning of your main function:

```
freopen ("kmul.in", "r", stdin );
```

```
freopen ("kmul.out", "w" , stdout );
```

**Note:** When printing/scanning long integers use "%l64d" with printf/scanf or cin/cout.

**Example:**

kmul.in	kmul.out
3 4 2	24