**7 kyu**

**Show multiples of 2 numbers within a range**

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Java

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Print all numbers up to 3rd parameter which are multiple of both 1st and 2nd parameter.

Python, Javascript, Java versions: return results in a list/array

NOTICE:

1. Do NOT worry about checking zeros or negative values.
2. To find out if 3rd parameter (the upper limit) is inclusive or not, check the tests, it differs in each translation

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package javaapplication8;

import java.util.ArrayList;

import java.util.List;

/\*\*

\*

\* @author Usuario

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public class JavaApplication8 {

public static List<Integer> findMultiples(int s1, int s2, int s3) {

List<Integer> arr = new ArrayList();

for(int i = 1; i<s3; i++) {

if(i%s1==0 && i % s2==0) {

arr.add(i);

}

}

return arr;

}

public static void main(String[] args) {

// TODO code application logic here

for(int elem : findMultiples( 2,4,40)) {

System.out.println(elem);

}

}

}

import string

import sys

def **multiples**(s1,s2,s3):

lcm = s1 \* s2 // gcd(s1, s2)

return range(lcm, s3, lcm)

def **multiples**(s1,s2,s3):

arr = []

for i in range(1, s3+1):

if i % s1 ==0 and i % s2 ==0:

arr.append(i)

return arr

s1, s2, s3 = 2,4,40

print(s1, s2, s3)

print(multiples(s1,s2,s3), [4, 8, 12, 16, 20, 24, 28, 32, 36])

s1, s2, s3 = 3,4,40

print(s1, s2, s3)

print(multiples(s1,s2,s3), [12, 24, 36])

s1, s2, s3 = 7,4,80

print(s1, s2, s3)

print(multiples(s1,s2,s3), [28, 56])

s1, s2, s3 = 7,4,20

print(s1, s2, s3)

print(multiples(s1,s2,s3), [])