**SONA COLLEGE OF TECHNOLOGY**

**(AUTONOMOUS)**

**B.E / B. Tech DEGREE SEMESTER END PRACTICAL EXAMINATIONS, DEC 2020 – JAN 2021**

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| **REGISTER NUMBER** | : | 1 | 5 | 1 | 8 | 1 | 0 | 2 | 0 | 6 | 5 |
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| **SUBJECT CODE** | : | U15CS506R | | | | | | | | | |
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| **SUBJECT NAME** | : | PYTHON PROGRAMMING LABORATORY | | | | | | | | | |
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| **BATCH** | : | 2 | | | | | | | | | |

**TYPE OR COPY / PASTE YOUR ALLOTTED QUESTION DOWN HERE IN THE BOX GIVEN BELOW**

Write a Python Program for the following:

i. Given 2 numbers(interval) display(space separated) odd numbers between two intervals.

Input Size : N,Q <= 100000

Sample Testcase :

INPUT

1 6

OUTPUT

3 5

ii. Waking up in the morning, Apollo decided to bake cookies. To bake one cookie, he needs n

   ingredients, and for each ingredient he knows the value ai — how many grams of this ingredient one

   needs to bake a cookie. To prepare one cookie Apollo needs to use all n ingredients. Apollo has

   bigram of the i-th ingredient. Also she has k grams of a magic powder. Each gram of magic powder can

   be turned to exactly 1 gram of any of the n ingredients and can be used for baking cookies. Your

   task is to determine the maximum number of cookies, which Apollo is able to bake using the

   ingredients that he has and the magic powder.

Input

The first line of the input contains two positive integers *n* and *k* (1 ≤ *n*, *k* ≤ 1000) — the number of ingredients and the number of grams of the magic powder.

The second line contains the sequence *a*1, *a*2, ..., *an* (1 ≤ *ai* ≤ 1000), where the *i*-th number is equal to the number of grams of the *i*-th ingredient, needed to bake one cookie.

The third line contains the sequence *b*1, *b*2, ..., *bn* (1 ≤ *bi* ≤ 1000), where the *i*-th number is equal to the number of grams of the *i*-th ingredient, which Apollinaria has.

Output

Print the maximum number of cookies, which Apollinaria will be able to bake using the ingredients that she has and the magic powder.

   Input Size : N<=100000, k<=1000000000

   Example:

INPUT

 3 1

 2 1 4

 11 3 16

OUTPUT

 4

