



HOME TOP CATALOG CONTESTS GYM PROBLEMSET GROUPS RATING EDU API CALENDAR HELP

SUBMIT CODE MY SUBMISSIONS STATUS HACKS ROOM STANDINGS CUSTOM INVOCATION **PROBLEMS**

D2. Magic Powder - 2

time limit per test: 1 second memory limit per test: 256 megabytes

The term of this problem is the same as the previous one, the only exception — increased restrictions.

Input

The first line contains two positive integers n and k ($1 \le n \le 100\ 000,\ 1 \le k \le 10^9$) — the number of ingredients and the number of grams of the magic powder.

The second line contains the sequence $a_1, a_2, ..., a_n$ ($1 \le a_i \le 10^9$), 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 $b_1, b_2, ..., b_n$ ($1 \le b_i \le 10^9$), where the *i*-th number is equal to the number of grams of the i-th ingredient, which Apollinaria has.

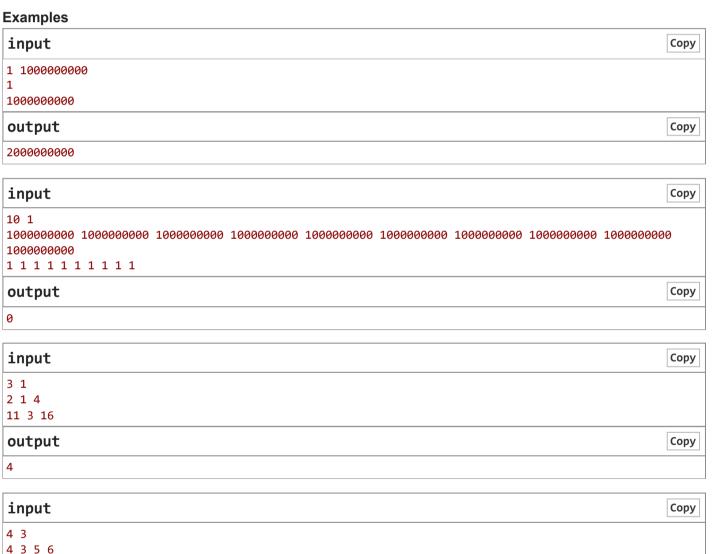
Output

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

11 12 14 20

output

3



Codeforces Round 350 (Div. 2) **Finished**

Practice



→ Virtual participation

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

Start virtual contest

→ Clone Contest to Mashup

You can clone this contest to a mashup.

Clone Contest

→ Submit?

Language: GNU G++20 13.2 (64 bit, win **∨**

Choose

Choose File No file chosen

Submit

ightarrow Last submissions		
Submission	Time	Verdict
179825099	Nov/07/2022 00:34	Accepted
179824785	Nov/07/2022 00:27	Accepted
179824652	Nov/07/2022 00:24	Wrong answer on test 2
179478763	Nov/06/2022 01:11	Accepted
179477229	Nov/06/2022 00:40	Accepted

→ Problem tags binary search [implementation] (*1500) No tag edit access

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→ Contest materials

- Codeforces Round 350
- Tutorial

Сору