Problem B. Cake

Input file:	standard input
Output file:	standard output
Time limit:	1 second
Memory limit:	256 megabytes

Your friend's birthday is coming up. In celebration, you would like to bake as many cakes as possible for them.

You have a cake recipe which needs e eggs, m litres of milk, and f kilograms of flour. In your house, you have in store E eggs, M litres of milk, and F kilograms of flour.

You are even willing to spend a total of R Rands on ingredients. The nearby grocery store sells an egg for R3, a litre of milk for R20, and a kilo of flour for R15.

Using the ingredients in your house and the money at your disposal, what is the maximum number of cakes you can bake?

Input

The first line of input contains four space-separated integers E, M, F, and R ($0 \le E, M, F, R \le 10^6$), the amount of eggs, milk, flour, and Rands you have at your disposal.

The next line of input contains three space-separated integers e, m, and f ($1 \le e, m, f \le 10^6$), the amount of eggs, milk, and flour needed to bake one cake.

Output

Output a single integer, the maximum number of cakes which you can bake.

Scoring

Subtask 1: (0 points) Examples.

Subtask 2: (50 points) You are not willing to spend any money i.e. $R = 0$.

Subtask 3: (50 points) No further restrictions.

Examples

standard input	standard output
6 3 4 0 3 1 2	2
6 3 4 40 3 1 2	3

Note

Explanation of Example 1

In the first example, you start off with 6 eggs, 3 litres of milk, and 4 kilos of flour. It takes 6 eggs, 2 litres of milk, and 4 kilos of flour to make 2 cakes. You cannot make any more cake because you do not have any eggs or flour left and have no money to buy more.

Explanation of Example 2

Again, you start off with 6 eggs, 3 litres of milk, and 4 kilos of flour. It takes 6 eggs, 2 litres of milk, and 4 kilos of flour to make 2 cakes. Since you have 1 litre of milk left, you can use your R40 rand to buy 3 eggs ($R9 = 3 \times R3$) and 2 kilos of flour ($R30 = 2 \times R15$), and still have R1 left over. You can bake another cake with the bought ingredients to bake a total of 3 cakes.