

## D. Döme's party

Time limit: 1 second  
Memory limit: 65535 kBytes

### Description

During the summer holidays, Döme is organizing a party where he wants to provide burgers for his guests, one for each guest. He can make two kinds of burgers, where each burger consists of a bun, a meat patty and a slice of cheese, but the ingredients are different and not interchangeable. Döme has all the ingredients at home and his mom even gave him money (copper coins) to organize the party. Döme's goal is to invite as many guests as possible, which means he needs to be able to make as many burgers as possible. Help him solve his problem.

### Input

- The first line of the input contains the number of buns ( $b_1$ ) he has at home and the price of the buns ( $pb_1$ ) for the first burger. The second line contains the number of meat patties ( $m_1$ ) and their price ( $pm_1$ ), the third line contains the number of cheese slices ( $c_1$ ) and their price ( $pc_1$ ).
- The next 3 rows contain the same values for the other type of hamburger ( $b_2$ ,  $pb_2$ ,  $m_2$ ,  $pm_2$ ,  $c_2$  and  $pc_2$ ).
- The last row has a single number, the amount of money he received for the party ( $m$ ).

### Output

The output is a single number that tells you the maximum number of guests Döme can invite, i.e. the maximum number of burgers he can cook.

### Constraints

- $0 \leq b_1, m_1, c_1, b_2, m_2, c_2 \leq 10^6$
- $1 \leq pb_1, pm_1, pc_1, pb_2, pm_2, pc_2 \leq 10^6$
- $1 \leq m \leq 10^6$

### Example

Input	Output
2 5	6
3 7	
3 3	
2 8	
1 2	
1 1	
20	

*Explanation:* Döme buys a bun for his first hamburger (5 coppers) so he can make 3 of the first kind. He then buys a bun (8 coppers), 2 meat patties (4 coppers) and 2 slices of cheese (2 coppers) for the second one, so he can make 3 of those too, and has used 19 coppers in total.