

Living Cost

Beo go to market every sunday to buy 3 kinds of food which he need for the next week. The kinds of food have price p_1 , p_2 , and p_3 for each piece respectively. With the exactly X vnd, how many ways he can buy?

Input

- The first line has an integer X ($1 \leq X \leq 10^7$).
- The second line has 3 integers p_1, p_2, p_3 respectively ($1 \leq p_i \leq 10^7$).

Output

Print the number of way he can buy.

Sample

Input	Output
28 3 5 7	6

* Beo can buy any of these set $(0*3+0*5+4*7)$, $(1*3+5*5+0*7)$, $(2*3+3*5+1*7)$, $(3*3+1*5+2*7)$, $(6*3+2*5+0*7)$, $(7*3+0*5+1*7)$