Problem 1 – Garden

Uncle Pesho needs help to calculate his garden production. He grows different vegetable plants. You are assigned to write a program to help him with the production calculations.

Uncle Pesho wants to plant the following vegetables: **tomato**, **cucumber**, **potato**, **carrot**, **cabbage**, **beans**.

For each vegetable, **except the beans**, uncle Pesho knows:

- **how many seeds** he wants to plant
- **on what area** he wants to plant those seeds

For the beans, uncle Pesho has decided:

- **how many seeds** he wants to plant
- the **area for the beans** will be **the area remaining after** planting the other vegetables

The **total area** uncle Pesho has is **250 square meters**.

Of course, everything in life has a price – including seeds. Below you will find a table with prices per seed for each vegetable

Write a program to **calculate the total cost of all the seeds** Pesho needs to buy and the **total area remaining for the beans**.

Seeds Costs

tomato	0.5$ per seed
cucumber	0.4$ per seed
potato	0.25$ per seed

carrot	0.6$ per seed
cabbage	0.3$ per seed
beans	0.4$ per seed

Input

The input data consists of 11 lines describing all the vegetables. Each line will hold a single number:

- The first line holds the tomato seeds amount, the second – the tomato area.
- The third line holds the cucumber seeds amount, the fourth line – cucumber area.
- The fifth line holds the potato seeds amount, sixth line – potato area.
- The seventh line holds the carrot seeds amount, eighth line – carrot area.
- The ninth line holds the cabbage seeds amount, tenth line – cabbage area.
- The eleventh line holds the beans seeds amount.

The input data will always be valid and in the format described. There is no need to check it explicitly.

Output

The output data should be printed at the console in two lines:

- At the first line print the total seeds cost, rounded to second digit after the decimal separator, in format "**Total costs: X.XX**" where **X.XX** are the costs.
- At the second line print the remaining area for beans.
    - In case there is some area for beans left, print its **size** in format "**Beans area: X**" where **X** is the area left for beans.

- In case of no area for beans is left, print „**No area for beans**“.
- In case the area for the tomato, cucumber, potato, carrot and cabbage is insufficient, print “**Insufficient area**”.

Constraints

- The seeds amount is non-negative integer number in the range [0…1000].
- The plants area is non-negative integer number in the range [0…250].
- All numbers should use as a decimal separator the symbol “**.**” (point, no comma).
- Allowed work time for your program: 0.1 seconds.
- Allowed memory: 4 MB.

Examples

Input	Output
10 20 25 30 42 38 15 23 18 36 70	Total costs: 67.90 Beans area: 103

Input	Output
30 39 50 60 15 77 18 36 28 39 65	Total costs: 83.95 Insufficient area

Input	Output
0 0 50 0 0 100 200 50 30 100 65	Total costs: 175.00 No area for beans