## Gladiator Expenses

As a gladiator, Peter needs to repair his broken equipment when he loses a fight. His equipment consists of helmet, sword, shield and armor. You will receive the Peter`s **lost fights count**.

Every **second** lost game, his helmet is broken.

Every **third** lost game, his sword is broken.

When both **his sword and helmet are broken** in the same lost fight, his **shield also brakes**.

**Every** **second time**, when his shield brakes, his armor also needs to be repaired.

You will receive the price of each item in his equipment. Calculate his expenses for the year for renewing his equipment.

### Input / Constraints

The input will consist of 5 **lines**:

* On the first line you will receive the **lost fights count** – integer in the range **[0, 1000]**.
* On the second line you will receive the **helmet price** - floating point number in range **[0, 1000]**.
* On the third line you will receive the **sword price** - floating point number in range **[0, 1000]**.
* On the fourth line you will receive the **shield price** - floating point number in range **[0, 1000]**.
* On the fifth line you will receive the **armor price** - floating point number in range **[0, 1000]**.

### Output

* As output you must print Peter`s total expenses for new equipment: **"Gladiator expenses: {expenses} aureus"**

### Examples

|  |  |  |
| --- | --- | --- |
| **Input** | **Output** | **Comment** |
| 7  2  3  4  5 | Gladiator expenses: 16.00 aureus | Trashed helmet -> 3 times  Trashed sword -> 2 times  Trashed shield -> 1 time  Total: 6 + 6 + 4 = 16.00 aureus; |
| 23  12.50  21.50  40  200 | Gladiator expenses: 608.00 aureus |  |