# Problem 1 - Google Searches



You will be given several lines of input and you must calculate how much **money Google makes from user searches**.

On the **first line**, you will receive the **Google income from a single search of a user**.

On the second **line** you will receive the **number of users (n)**.

On the **following n lines,** you will get the **number of searches each user make**.

You must calculate the **total money from the searches**.

However, there are some **additional rules**:

* If the **searches** of a user are **more than 5**, we **double the** money earned from the searches.
* If a user makes just **one search**, we **ignore the search** and Google **did not earn** any money from it.
* For each **third user**,the **money per search** is **tripled**
  + If **third user's** searches are **greater than 5**, you should **ALSO double the money per search.**
  + If **third user make one search**, the search should be **ignored.**

After calculating the total money, print them in the following format:

**"Total money earned: {totalMoney}"**. The money should be **formatted to the second decimal point.**

### Input

* First line: money per search – floating-point number in range **[0.00 - 5000.00].**
* Second line: number of users (n) – integer in range **[0 - 10000].**
* Next n lines: number of searches for each user – integer in range **[0 - 10000].**

### Output

* Print the output in the format described above.

### Constraints

* The **command will always be valid.**

### Examples

|  |  |  |
| --- | --- | --- |
| **Input** | **Output** | **Comments** |
| 5.5  3  1  10  5 | Total money earned: 192.50 | For the first user we have one search, so we ignore the search.  We double the money from the second user: 10 \* 5.5 \* 2 = 110  For the third user we have 5 searches, so we triple the money per search (82.5).  At the end we get a total money of 192.50. |
| 0.5  6  3  5  16  0  6  1 | Total money earned: 58.00 |  |
| 3.0  7  0  1  2  3  4  6  15 | Total money earned: 237.00 |  |