## Problem 1006. BIT Subway

BIT(Beijing International Transport) subway, which can take people anywhere in a short time, is the most popular travel mode in 2050. One day, BIT subway launches a promotion as follows:

- If the total ticket price $x$ you have spent this month is greater than or equal to 100 and you buy another ticket with yyuan, then you only need to pay $0.8 y$ yuan.
- If the total ticket price $x$ you have spent this month is greater than or equal to 200 and you buy another ticket with yyuan, then you only need to pay $0.5 y y u a n$.
DLee is so happy that he can save more money to buy a house. However, a long time later, he notices that the real billing method is a bit different from what he thought. For example, DLee has spent 199yuan on tickets this month, he now buys a 10yuan ticket, then buys an 8yuan ticket:
- DLee thinks that he can buy only a part of the ticket instead of the whole ticket at a time. That is, for the $10 y u a n$ ticket, DLee thinks he can buy the 1.25 yuan part of the ticket first and buy the $8.75 y$ yan part of the ticket then. Under his misunderstanding, he needs to spend $199+1.25 * 0.8+8.75 * 0.5+8 * 0.5=$ 208.375yuan. Note that in this example, DLee has to spend 1.25 yuan instead of only 1 yuan to make $x=200$.
- The real billing method is that only if you have spent enough, you can get the discount, so it will be $199+10 * 0.8+8 * 0.5=211$ yuan.
Now DLee wants to know in the previous months, how much difference did the billing method make.


## Input

Each test contains multiple test cases. The first line contains one integer $T(1 \leq T \leq 10)$, which means the months DLee wants to check. Description of the months follows.
The first line contains a single integer $n\left(1 \leq n \leq 10^{5}\right)$, which means the number of tickets DLee bought in this month.

Then follows $n$ integers $a_{1}, a_{2}, \ldots, a_{n}\left(1 \leq a_{i} \leq 200\right), a_{i}$ means the $i$-th ticket's price.

## Output

For each month, output one line with two numbers divided by a single whitespace with three decimal places. The first number represents the cost in DLee's thought, and the second number represents the real cost.

## Example Input

```
3
7
202020201878
13
302023 20 7 20 11 12 30 20 30 1513
3
10200 10
```


## Example Output

```
110.400 111.400
213.000 216.900
196.000 215.000
```


## hint

For the first case, DLee thinks the cost is: $20+20+20+20+18+2+((7-2)+8) * 0.8=110.4$, the real cost is: $20+20+20+20+18+7+8 * 0.8=111.4$

