
11. Shopping to the Max

Program Name: Shopping.java

Input File: shopping.dat

Richard's mother has given him \$200 to spend for clothes for college. The problem is that Richard must spend it all at one store and cannot spend more than \$200. Richard has gone to several stores and found the prices, which include any taxes, of many items that he wants to buy.

You will write a program that will find which items he should buy at each store given that he wants to spend as much as possible without going over the \$200 maximum.

Input

The first line of input will contain a single integer n that indicates the number of stores that Richard has researched. Each the following n lines will contain a list of the prices of the items that Richard selected from that store. All prices will be in the form $ddd.cc$, where d represents dollars with no leading zeros and c represents cents. The prices will be separated by a single space.

Output

For each store, you will print the smallest amount of money that he would have left from the \$200 he was given if he bought the items that would total the most without going over his \$200 limit. The output should be in the form $ddd.cc$, with no leading zeros to the left of the decimal. For example, 19 cents would be output as .19.

Example Input File

```
3
14.99 79.99 80.29 13.44 15.17 33.29
88.10 15.00 111.90 45.14 2.25 33.45
20.00 50.00 10.00 20.00 30.00 40.00 70.01 30.10 25.25
```

Example Output to Screen

```
6.43
.00
4.64
```