10. Spring Trip

Program Name: Spring.java Input File: spring.dat

The band is selling cookie dough to raise money for their spring trip to the coast. Cookie dough is sold in packages for \$14 each and in tubs for \$15 each.

Each member must raise \$500 for his portion of the trip and can get credits toward raising his \$500 as follows:

- For each for each package of cookie dough that a member sells, he gets a credit of 48% of the money collected toward his share of the trip.
- For each tub of cookie dough that a member sells, he gets a credit of 45% of the money collected toward his share of the trip.
- For any donation that a member receives, he gets a credit of 100% of the money donated toward his share of the trip.

You are to write a program that will compute the amount of money that each member has raised.

Input

The first line of input will contain a single integer n that indicates the number of students in the band. For each student:

- The first line will contain the member's first name and a space followed by single integer t ≥ 0 that
 indicates the number of transactions that that member has.
- Each of the following t lines will contain one transaction consisting of up to three codes that will identify
 the sales for that transaction.
 - o The codes will indicate the type of item and how many of that item the member sold or the amount of a donation received.
 - The code types are a P (a package of cookie dough), a T (tub of cookie dough), or a D (a donation)
 - Each type will be followed immediately (no space) by how many of the items he sold or the integer amount of the donation he received.
 - The codes will be separated by a space.

Output

For each student, and in the order the students appear in the data file, you will output the student's name and a space followed by the amount of money that he has left to raise. If he has raised more than \$500, you will print his name, a space and OVER followed by the amount of extra money he raised. The money output should be preceded by a \$ and rounded to the nearest penny. Do not round until all mathematical operations are complete.

Example Input File

3 STEVE 4 T3 P5 D100 T4 D25 P3 T4 D100 MARY 3 D300 T3 P5 T8 P8 P10 JOE 5 P20 D10 T25 T5 P10 D15 D25 P20 D100

10. Spring Trip (cont.)

Example Output to Screen

STEVE \$146.99 MARY OVER \$28.81 JOE OVER \$188.50