

Alice, Bob, Claire, and David are good friends who share an apartment. They would split the house bills and other expenses amongst themselves. Since every one of them pays for something, they would try to figure out what is the easiest way to settle amongst themselves. They have contracted you to help them with this problem.

Write a command line application that takes in two input text files.

The first text file contains a list of people.

- Alice
- Bob
- Claire
- David

The second text file would contain list of expense transactions.

- Claire paid \$100.10 for phone bill.
- Bob paid \$55.90 for petrol.
- David paid \$170.80 for groceries.
- David paid \$33.40 for breakfast.
- Bob paid \$85.60 for lunch.
- Claire paid \$103.45 for dinner.
- Claire paid \$30.80 for snacks.
- Bob paid \$70 for house-cleaning.
- David paid \$63.50 for utilities.

The output of the program should print the following lines:

- Alice pays \$xx.xx to David.
- Bob pays \$xx.xx to Claire.

And so on.

The code solution needs to **well designed, readable, production quality** and **unit tested**. It should be able to be compiled and runnable.

The candidate should **follow the principles and general conventions of his or her programming language of choice**. While there is no restriction on language, please do refrain from using esoteric languages.

**Specify your assumptions or any other information you want to convey in a top level project directory file README.md or README.txt.**

**Do specify instructions to compile and run your solution in the README file as well.**