

Description

Just one action is not so interesting, is it? Let's improve the program so it can do multiple actions, one after another. It should repeatedly ask a user what they want to do. If the user types `"buy"`, `"fill"` or `"take"`, then the program should do exactly the same thing it did in the previous step. However, if the user wants to switch off the coffee machine, they should type `"exit"`. The program should terminate on this command. Also, when the user types `"remaining"`, the program should output all the resources that the coffee machine has. This means that you shouldn't show the remaining stock levels at the beginning/end of the program.

Remember, that:

- For the espresso, the coffee machine needs 250 ml of water and 16 g of coffee beans. It costs \$4.
- For the latte, the coffee machine needs 350 ml of water, 75 ml of milk, and 20 g of coffee beans. It costs \$7.
- And for the cappuccino, the coffee machine needs 200 ml of water, 100 ml of milk, and 12 g of coffee. It costs \$6.

Objectives

Write a program that will work endlessly to make coffee for all interested persons until the shutdown signal is given. Introduce two new options: `"remaining"` and `"exit"`.

Do not forget that you can be out of resources for making coffee. If the coffee machine doesn't have enough resources to make coffee, the program should output a message that says it can't make a cup of coffee and state what is missing.

And the last improvement to the program at this step — if the user types `"buy"` to buy a cup of coffee and then changes his mind, they should be able to type `"back"` to return into the main cycle.

Example

Your coffee machine should have the same initial resources as in the example (*400 ml of water, 540 ml of milk, 120 g of coffee beans, 9 disposable cups, \$550 in cash*).

The greater-than symbol followed by a space (`>`) represents the user input. Note that it's not part of the input.

Write action (buy, fill, take, remaining, exit):
> remaining

The coffee machine has:
400 ml of water
540 ml of milk
120 g of coffee beans
9 disposable cups
\$550 of money

Write action (buy, fill, take, remaining, exit):
> buy

What do you want to buy? 1 - espresso, 2 - latte, 3 - cappuccino, back - to main menu:
> 2

I have enough resources, making you a coffee!

Write action (buy, fill, take, remaining, exit):
> remaining

The coffee machine has:
50 ml of water
465 ml of milk
100 g of coffee beans
8 disposable cups
\$557 of money

Write action (buy, fill, take, remaining, exit):
> buy

What do you want to buy? 1 - espresso, 2 - latte, 3 - cappuccino, back - to main menu:
> 2

Sorry, not enough water!

Write action (buy, fill, take, remaining, exit):
> fill

Write how many ml of water you want to add:
> 1000

Write how many ml of milk you want to add:
> 0

Write how many grams of coffee beans you want to add:
> 0

Write how many disposable cups you want to add:
> 0

Write action (buy, fill, take, remaining, exit):
> remaining

The coffee machine has:
1050 ml of water
465 ml of milk
100 g of coffee beans
8 disposable cups
\$557 of money

Write action (buy, fill, take, remaining, exit):

> buy

What do you want to buy? 1 - espresso, 2 - latte, 3 - cappuccino, back - to main menu:

> 2

I have enough resources, making you a coffee!

Write action (buy, fill, take, remaining, exit):

> remaining

The coffee machine has:

700 ml of water

390 ml of milk

80 g of coffee beans

7 disposable cups

\$564 of money

Write action (buy, fill, take, remaining, exit):

> take

I gave you \$564

Write action (buy, fill, take, remaining, exit):

> remaining

The coffee machine has:

700 ml of water

390 ml of milk

80 g of coffee beans

7 disposable cups

\$0 of money

Write action (buy, fill, take, remaining, exit):

> exit