

Assumptions

- The price can be set at any positive value divisible by \$0.01. (can't pay/charge in half pennies).
- There is no limit to the amount of items the vending machine can hold.
- The machine cannot hold a negative quantity of any items.
- The vending machine must keep track of the inventory.
- A person can give money in any denomination of dollars, quarters, dimes, nickels, and pennies.

Project Description

Command	Syntax	Example Description
balance	balance	shows the balance
history	history	prints list of transactions
inventory	inventory	prints available items with name and ID
add item	add item chips 2 \$1.00	add an item name qty price
buy item {5}	buy item chips 1 2 2 4 3	buys an item with # dollars, quarters, dimes, nickles, pennies. It also shows change given and the remaining balance with currency distribution. For change, the machine uses the largest denominator of currency that is available.
help	help	display help menu with these commands
exit	exit	exit the vending machine

Sample Input

```
add item chips 20 $.50
add item coke 5 $.75
add item diet coke 5 $.75
inventory
buy item coke 0 3 0 0 0
inventory
buy item chips 1 0 0 0 0
buy item diet coke 0 2 0 0 0
inventory
history
balance
```