

COMSC-165

Programming Assignment 9

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Run 1

```
./ryan_jacoby_165_assign9
1) Cola 0.75
2) Root Beer 0.75
3) Lemon-Lime 0.75
4) Grape Soda 0.80
5) Cream Soda 0.80
6) Leave the drink machine

Choose one: 3
Enter an amount of money: 1

Enjoy your beverage!

Change calculated: 0.25
Your change, 0.25 has just dropped into the Change Dispenser.

There are 19 drinks of that type left.

1) Cola 0.75
2) Root Beer 0.75
3) Lemon-Lime 0.75
4) Grape Soda 0.80
5) Cream Soda 0.80
6) Leave the drink machine

Choose one: 5
Enter an amount of money: 15
Enter at least 0.80 and not more than 1.00 dollar.
2
Enter at least 0.80 and not more than 1.00 dollar.
4
Enter at least 0.80 and not more than 1.00 dollar.
.991

Enjoy your beverage!

Change calculated: 0.19
Your change, 0.19 has just dropped into the Change Dispenser.

There are 19 drinks of that type left.

1) Cola 0.75
2) Root Beer 0.75
3) Lemon-Lime 0.75
4) Grape Soda 0.80
5) Cream Soda 0.80
6) Leave the drink machine

Choose one: 4
Enter an amount of money: -1
Enter at least 0.80 and not more than 1.00 dollar.
.99

Enjoy your beverage!

Change calculated: 0.19
Your change, 0.19 has just dropped into the Change Dispenser.

There are 19 drinks of that type left.

1) Cola 0.75
2) Root Beer 0.75
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.c165/Module 9

Choose one: 5
Enter an amount of money: 15
Enter at least 0.80 and not more than 1.00 dollar.
2
Enter at least 0.80 and not more than 1.00 dollar.
.4
Enter at least 0.80 and not more than 1.00 dollar.
.991
Enjoy your beverage!
Change calculated: 0.19
Your change, 0.19 has just dropped into the Change Dispenser.
There are 19 drinks of that type left.

1) Cola          0.75
2) Root Beer     0.75
3) Lemon-Lime    0.75
4) Grape Soda    0.80
5) Cream Soda    0.80
6) Leave the drink machine

Choose one: 4
Enter an amount of money: -1
Enter at least 0.80 and not more than 1.00 dollar.
.99
Enjoy your beverage!
Change calculated: 0.19
Your change, 0.19 has just dropped into the Change Dispenser.
There are 19 drinks of that type left.

1) Cola          0.75
2) Root Beer     0.75
3) Lemon-Lime    0.75
4) Grape Soda    0.80
5) Cream Soda    0.80
6) Leave the drink machine

Choose one: 5
Enter an amount of money: .999
Enjoy your beverage!
Change calculated: 0.20
Your change, 0.20 has just dropped into the Change Dispenser.
There are 18 drinks of that type left.

1) Cola          0.75
2) Root Beer     0.75
3) Lemon-Lime    0.75
4) Grape Soda    0.80
5) Cream Soda    0.80
6) Leave the drink machine

Choose one: 6
Total earnings: $3.15
```

Run 2

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.c165/Module 9
> ./ryan_jacoby_165_assign9
1) Cola          0.75
2) Root Beer     0.75
3) Lemon-Lime    0.75
4) Grape Soda    0.80
5) Cream Soda    0.80
6) Leave the drink machine

Choose one: 1
Enter an amount of money: 1

Enjoy your beverage!

Change calculated: 0.25
Your change, 0.25 has just dropped into the Change Dispenser.

There are 19 drinks of that type left.

1) Cola          0.75
2) Root Beer     0.75
3) Lemon-Lime    0.75
4) Grape Soda    0.80
5) Cream Soda    0.80
6) Leave the drink machine

Choose one: 1
Enter an amount of money: 1

Enjoy your beverage!

Change calculated: 0.25
Your change, 0.25 has just dropped into the Change Dispenser.

There are 18 drinks of that type left.

1) Cola          0.75
2) Root Beer     0.75
3) Lemon-Lime    0.75
4) Grape Soda    0.80
5) Cream Soda    0.80
6) Leave the drink machine

Choose one: 1
Enter an amount of money: 1

Enjoy your beverage!

Change calculated: 0.25
Your change, 0.25 has just dropped into the Change Dispenser.

There are 17 drinks of that type left.

1) Cola          0.75
2) Root Beer     0.75
3) Lemon-Lime    0.75
4) Grape Soda    0.80
5) Cream Soda    0.80
6) Leave the drink machine

Choose one: 1
Enter an amount of money: 1
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.c165/Module 9

Change calculated: 0.25
Your change, 0.25 has just dropped into the Change Dispenser.

There are 16 drinks of that type left.

1) Cola            0.75
2) Root Beer      0.75
3) Lemon-Lime     0.75
4) Grape Soda     0.80
5) Cream Soda     0.80
6) Leave the drink machine

Choose one: 1
Enter an amount of money: 1

Enjoy your beverage!

Change calculated: 0.25
Your change, 0.25 has just dropped into the Change Dispenser.

There are 15 drinks of that type left.

1) Cola            0.75
2) Root Beer      0.75
3) Lemon-Lime     0.75
4) Grape Soda     0.80
5) Cream Soda     0.80
6) Leave the drink machine

Choose one: 1
Enter an amount of money: 1

Enjoy your beverage!

Change calculated: 0.25
Your change, 0.25 has just dropped into the Change Dispenser.

There are 14 drinks of that type left.

1) Cola            0.75
2) Root Beer      0.75
3) Lemon-Lime     0.75
4) Grape Soda     0.80
5) Cream Soda     0.80
6) Leave the drink machine

Choose one: 1
Enter an amount of money: 1

Enjoy your beverage!

Change calculated: 0.25
Your change, 0.25 has just dropped into the Change Dispenser.

There are 13 drinks of that type left.

1) Cola            0.75
2) Root Beer      0.75
3) Lemon-Lime     0.75
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.c165/Module 9

1) Cola          0.75
2) Root Beer     0.75
3) Lemon-Lime    0.75
4) Grape Soda    0.80
5) Cream Soda    0.80
6) Leave the drink machine

Choose one: 1
Enter an amount of money: 1
Enjoy your beverage!
Change calculated: 0.25
Your change, 0.25 has just dropped into the Change Dispenser.
There are 12 drinks of that type left.

1) Cola          0.75
2) Root Beer     0.75
3) Lemon-Lime    0.75
4) Grape Soda    0.80
5) Cream Soda    0.80
6) Leave the drink machine

Choose one: 1
Enter an amount of money: 1
Enjoy your beverage!
Change calculated: 0.25
Your change, 0.25 has just dropped into the Change Dispenser.
There are 11 drinks of that type left.

1) Cola          0.75
2) Root Beer     0.75
3) Lemon-Lime    0.75
4) Grape Soda    0.80
5) Cream Soda    0.80
6) Leave the drink machine

Choose one: 1
Enter an amount of money: 1
Enjoy your beverage!
Change calculated: 0.25
Your change, 0.25 has just dropped into the Change Dispenser.
There are 10 drinks of that type left.

1) Cola          0.75
2) Root Beer     0.75
3) Lemon-Lime    0.75
4) Grape Soda    0.80
5) Cream Soda    0.80
6) Leave the drink machine

Choose one: 1
Enter an amount of money: 1
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..c165/Module 9
Choose one: 1
Enter an amount of money: 1
Enjoy your beverage!
Change calculated: 0.25
Your change, 0.25 has just dropped into the Change Dispenser.
There are 9 drinks of that type left.

1) Cola          0.75
2) Root Beer     0.75
3) Lemon-Lime    0.75
4) Grape Soda    0.80
5) Cream Soda    0.80
6) Leave the drink machine

Choose one: 1
Enter an amount of money: 1
Enjoy your beverage!
Change calculated: 0.25
Your change, 0.25 has just dropped into the Change Dispenser.
There are 8 drinks of that type left.

1) Cola          0.75
2) Root Beer     0.75
3) Lemon-Lime    0.75
4) Grape Soda    0.80
5) Cream Soda    0.80
6) Leave the drink machine

Choose one: 1
Enter an amount of money: 1
Enjoy your beverage!
Change calculated: 0.25
Your change, 0.25 has just dropped into the Change Dispenser.
There are 7 drinks of that type left.

1) Cola          0.75
2) Root Beer     0.75
3) Lemon-Lime    0.75
4) Grape Soda    0.80
5) Cream Soda    0.80
6) Leave the drink machine

Choose one: 1
Enter an amount of money: 1
Enjoy your beverage!
Change calculated: 0.25
Your change, 0.25 has just dropped into the Change Dispenser.
There are 6 drinks of that type left.
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.c165/Module 9

1) Cola          0.75
2) Root Beer    0.75
3) Lemon-Lime   0.75
4) Grape Soda   0.80
5) Cream Soda   0.80
6) Leave the drink machine

Choose one: 1
Enter an amount of money: 1

Enjoy your beverage!

Change calculated: 0.25
Your change, 0.25 has just dropped into the Change Dispenser.

There are 5 drinks of that type left.

1) Cola          0.75
2) Root Beer    0.75
3) Lemon-Lime   0.75
4) Grape Soda   0.80
5) Cream Soda   0.80
6) Leave the drink machine

Choose one: 1
Enter an amount of money: 1

Enjoy your beverage!

Change calculated: 0.25
Your change, 0.25 has just dropped into the Change Dispenser.

There are 4 drinks of that type left.

1) Cola          0.75
2) Root Beer    0.75
3) Lemon-Lime   0.75
4) Grape Soda   0.80
5) Cream Soda   0.80
6) Leave the drink machine

Choose one: 1
Enter an amount of money: 1

Enjoy your beverage!

Change calculated: 0.25
Your change, 0.25 has just dropped into the Change Dispenser.

There are 3 drinks of that type left.

1) Cola          0.75
2) Root Beer    0.75
3) Lemon-Lime   0.75
4) Grape Soda   0.80
5) Cream Soda   0.80
6) Leave the drink machine

Choose one: 1
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.c165/Module 9
3) Lemon-Lime      0.75
4) Grape Soda      0.80
5) Cream Soda      0.80
6) Leave the drink machine

Choose one: 1
Enter an amount of money: 1

Enjoy your beverage!

Change calculated: 0.25
Your change, 0.25 has just dropped into the Change Dispenser.

There are 2 drinks of that type left.

1) Cola            0.75
2) Root Beer       0.75
3) Lemon-Lime      0.75
4) Grape Soda       0.80
5) Cream Soda       0.80
6) Leave the drink machine

Choose one: 1
Enter an amount of money: 1

Enjoy your beverage!

Change calculated: 0.25
Your change, 0.25 has just dropped into the Change Dispenser.

There are 1 drinks of that type left.

1) Cola            0.75
2) Root Beer       0.75
3) Lemon-Lime      0.75
4) Grape Soda       0.80
5) Cream Soda       0.80
6) Leave the drink machine

Choose one: 1
Enter an amount of money: 1

Enjoy your beverage!

Change calculated: 0.25
Your change, 0.25 has just dropped into the Change Dispenser.

There are 0 drinks of that type left.

1) Cola            0.75
2) Root Beer       0.75
3) Lemon-Lime      0.75
4) Grape Soda       0.80
5) Cream Soda       0.80
6) Leave the drink machine

Choose one: 1
Sorry, that item is out of stock. Please choose a different beverage.
Choose one: 6
Total earnings: $15.00
~/devel/cpp/comsc165/Module 9 > on master ?1 < took 15s < at 06:03:24 PM
```


Run 3

```
.c165/Module 9
> ./ryan_jacoby_165_assign9
1) Cola          0.75
2) Root Beer     0.75
3) Lemon-Lime    0.75
4) Grape Soda    0.80
5) Cream Soda    0.80
6) Leave the drink machine

Choose one: 5
Enter an amount of money: 2
Enter at least 0.80 and not more than 1.00 dollar.
0.56
Enter at least 0.80 and not more than 1.00 dollar.
0.81

Enjoy your beverage!

Change calculated: 0.01
Your change, 0.01 has just dropped into the Change Dispenser.

There are 19 drinks of that type left.

1) Cola          0.75
2) Root Beer     0.75
3) Lemon-Lime    0.75
4) Grape Soda    0.80
5) Cream Soda    0.80
6) Leave the drink machine

Choose one: 3
Enter an amount of money: 0.80

Enjoy your beverage!

Change calculated: 0.05
Your change, 0.05 has just dropped into the Change Dispenser.

There are 19 drinks of that type left.

1) Cola          0.75
2) Root Beer     0.75
3) Lemon-Lime    0.75
4) Grape Soda    0.80
5) Cream Soda    0.80
6) Leave the drink machine

Choose one: 5
Enter an amount of money: 0.9

Enjoy your beverage!

Change calculated: 0.10
Your change, 0.10 has just dropped into the Change Dispenser.

There are 18 drinks of that type left.

1) Cola          0.75
2) Root Beer     0.75
3) Lemon-Lime    0.75
4) Grape Soda    0.80
5) Cream Soda    0.80
6) Leave the drink machine
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.c165/Module 9
5) Cream Soda          0.80
6) Leave the drink machine

Choose one: 5
Enter an amount of money: 2
Enter at least 0.80 and not more than 1.00 dollar.
0.56
Enter at least 0.80 and not more than 1.00 dollar.
0.81

Enjoy your beverage!

Change calculated: 0.01
Your change, 0.01 has just dropped into the Change Dispenser.

There are 19 drinks of that type left.

1) Cola          0.75
2) Root Beer     0.75
3) Lemon-Lime    0.75
4) Grape Soda    0.80
5) Cream Soda    0.80
6) Leave the drink machine

Choose one: 3
Enter an amount of money: 0.80

Enjoy your beverage!

Change calculated: 0.05
Your change, 0.05 has just dropped into the Change Dispenser.

There are 19 drinks of that type left.

1) Cola          0.75
2) Root Beer     0.75
3) Lemon-Lime    0.75
4) Grape Soda    0.80
5) Cream Soda    0.80
6) Leave the drink machine

Choose one: 5
Enter an amount of money: 0.9

Enjoy your beverage!

Change calculated: 0.10
Your change, 0.10 has just dropped into the Change Dispenser.

There are 18 drinks of that type left.

1) Cola          0.75
2) Root Beer     0.75
3) Lemon-Lime    0.75
4) Grape Soda    0.80
5) Cream Soda    0.80
6) Leave the drink machine

Choose one: 6
Total earnings: $2.35
~/devel/cpp/comsc165/Module 9 > on master ?1 ✓ took 33s at 06:07:25 PM
```

Run 4

```
.c165/Module 9
> ./ryan_jacoby_165_assign9
1) Cola          0.75
2) Root Beer     0.75
3) Lemon-Lime    0.75
4) Grape Soda    0.80
5) Cream Soda    0.80
6) Leave the drink machine

Choose one: -5
Enter a valid choice(1-6): 44
Enter a valid choice(1-6): 4
Enter an amount of money: 1

Enjoy your beverage!

Change calculated: 0.20
Your change, 0.20 has just dropped into the Change Dispenser.

There are 19 drinks of that type left.

1) Cola          0.75
2) Root Beer     0.75
3) Lemon-Lime    0.75
4) Grape Soda    0.80
5) Cream Soda    0.80
6) Leave the drink machine

Choose one: 4
Enter an amount of money: 1

Enjoy your beverage!

Change calculated: 0.20
Your change, 0.20 has just dropped into the Change Dispenser.

There are 18 drinks of that type left.

1) Cola          0.75
2) Root Beer     0.75
3) Lemon-Lime    0.75
4) Grape Soda    0.80
5) Cream Soda    0.80
6) Leave the drink machine

Choose one: 2
Enter an amount of money: 3
Enter at least 0.75 and not more than 1.00 dollar.
0.95

Enjoy your beverage!

Change calculated: 0.20
Your change, 0.20 has just dropped into the Change Dispenser.

There are 19 drinks of that type left.

1) Cola          0.75
2) Root Beer     0.75
3) Lemon-Lime    0.75
4) Grape Soda    0.80
5) Cream Soda    0.80
6) Leave the drink machine
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.c165/Module 9
5) Cream Soda      0.80
6) Leave the drink machine

Choose one: -5
Enter a valid choice(1-6): 44
Enter a valid choice(1-6): 4
Enter an amount of money: 1

Enjoy your beverage!

Change calculated: 0.20
Your change, 0.20 has just dropped into the Change Dispenser.

There are 19 drinks of that type left.

1) Cola      0.75
2) Root Beer 0.75
3) Lemon-Lime 0.75
4) Grape Soda 0.80
5) Cream Soda 0.80
6) Leave the drink machine

Choose one: 4
Enter an amount of money: 1

Enjoy your beverage!

Change calculated: 0.20
Your change, 0.20 has just dropped into the Change Dispenser.

There are 18 drinks of that type left.

1) Cola      0.75
2) Root Beer 0.75
3) Lemon-Lime 0.75
4) Grape Soda 0.80
5) Cream Soda 0.80
6) Leave the drink machine

Choose one: 2
Enter an amount of money: 3
Enter at least 0.75 and not more than 1.00 dollar.
0.95

Enjoy your beverage!

Change calculated: 0.20
Your change, 0.20 has just dropped into the Change Dispenser.

There are 19 drinks of that type left.

1) Cola      0.75
2) Root Beer 0.75
3) Lemon-Lime 0.75
4) Grape Soda 0.80
5) Cream Soda 0.80
6) Leave the drink machine

Choose one: 6
Total earnings: $2.35
~/devel/cpp/comsc165/Module 9 > on master ?1 ... took 1m 8s at 06:09:15 PM
```

Run 5

```
.c165/Module 9
> ./ryan_jacoby_165_assign9
1) Cola          0.75
2) Root Beer     0.75
3) Lemon-Lime    0.75
4) Grape Soda    0.80
5) Cream Soda    0.80
6) Leave the drink machine

Choose one: 1
Enter an amount of money: 1

Enjoy your beverage!

Change calculated: 0.25
Your change, 0.25 has just dropped into the Change Dispenser.

There are 19 drinks of that type left.

1) Cola          0.75
2) Root Beer     0.75
3) Lemon-Lime    0.75
4) Grape Soda    0.80
5) Cream Soda    0.80
6) Leave the drink machine

Choose one: 2
Enter an amount of money: 2
Enter at least 0.75 and not more than 1.00 dollar.
1

Enjoy your beverage!

Change calculated: 0.25
Your change, 0.25 has just dropped into the Change Dispenser.

There are 19 drinks of that type left.

1) Cola          0.75
2) Root Beer     0.75
3) Lemon-Lime    0.75
4) Grape Soda    0.80
5) Cream Soda    0.80
6) Leave the drink machine

Choose one: 3
Enter an amount of money: -5
Enter at least 0.75 and not more than 1.00 dollar.
1

Enjoy your beverage!

Change calculated: 0.25
Your change, 0.25 has just dropped into the Change Dispenser.

There are 19 drinks of that type left.

1) Cola          0.75
2) Root Beer     0.75
3) Lemon-Lime    0.75
4) Grape Soda    0.80
5) Cream Soda    0.80
6) Leave the drink machine
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.c165/Module 9

Choose one: 3
Enter an amount of money: -5
Enter at least 0.75 and not more than 1.00 dollar.
1
Enjoy your beverage!
Change calculated: 0.25
Your change, 0.25 has just dropped into the Change Dispenser.
There are 19 drinks of that type left.

1) Cola          0.75
2) Root Beer     0.75
3) Lemon-Lime    0.75
4) Grape Soda    0.80
5) Cream Soda    0.80
6) Leave the drink machine

Choose one: 4
Enter an amount of money: 77
Enter at least 0.80 and not more than 1.00 dollar.
1
Enjoy your beverage!
Change calculated: 0.20
Your change, 0.20 has just dropped into the Change Dispenser.
There are 19 drinks of that type left.

1) Cola          0.75
2) Root Beer     0.75
3) Lemon-Lime    0.75
4) Grape Soda    0.80
5) Cream Soda    0.80
6) Leave the drink machine

Choose one: 5
Enter an amount of money: 99999999
Enter at least 0.80 and not more than 1.00 dollar.
1
Enjoy your beverage!
Change calculated: 0.20
Your change, 0.20 has just dropped into the Change Dispenser.
There are 19 drinks of that type left.

1) Cola          0.75
2) Root Beer     0.75
3) Lemon-Lime    0.75
4) Grape Soda    0.80
5) Cream Soda    0.80
6) Leave the drink machine

Choose one: 6
Total earnings: $3.85
~/devel/cpp/comsc165/Module 9 > on master ?1 .....
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