

Key Concepts:

Warning: this list is not comprehensive!

- **Sequence Types:** Strings, Lists, Tuples, len(), []
- **Mapping Types:** Dictionaries
- **Misc. Types:** Namedtuples, Sets
- **String Formatting:** replacement fields, specification types

	String	List	Tuple
Pros			
Cons			

	Dictionaries	Namedtuples	Sets
Pros			
Cons			

Discussion Questions:

1. String Formatting - Write the correct output for the following statements. Put one character per box to show the exact spacing.

```
a) print("Pad Thai {1}...{0:1s}!!".format("!?", "mmmm"))
```

[illegible]

```
b) print("${:5.2f},{:7} is gold!".format(88.777, "money"))
```

[illegible]

```
c) print("{:5d} {:>4d} {:8s}".format(321, 123, "ya yeet!"))
```

[illegible]

```
d) print("G{}{:2s}oo Googly {:<3}!".format(0, "Go", "Go"))
```

[illegible]

```
e) print("Taylor Swift {:5d}.".format(1989))
```

[illegible]

```
f) print("UC{:4s}  (${:2.1f})".format("SB", 1921.420))
```

[illegible]

```
g) print("UC{:>4s} (CS:08)".format("SD (Lame!)"))
```

[illegible]

```
h) print("{1}, -, {0}, {2}.".format("uwu", "owo", "ewe"))
```

[illegible]

2. Write a code snippet that takes a numeric input from the keyboard, cents, and outputs the coins in change a cashier would return.

#Assume the input will always be an integer between 0 and 99, inclusive.
#Assume the cashier will always return the least amount of coins possible.
#Assume the cashier has quarters (25 cents), dimes (10 cents), nickels (5 cents), and pennies (1 cent).

#Example 1:

Enter amount of change: 99

Your change is equivalent to 3 quarter(s) + 2 dime(s) + 0 nickel(s) + 4 penny(ies)

#Example 2:

Enter amount of change: 43

Your change is equivalent 1 quarter(s) + 1 dime(s) + 1 nickel(s) + 3 penny(ies)

3. In the reality television series, *Survivor*, castaways can exchange their fire tokens for various food and comfort items, as well as various advantages in the game. The exchange rates for these items are listed in a dictionary, `tokens`, in the file `"survivor.py"` with the key: value pair being `item: cost` respectively.

a) Write a program that takes two inputs from the keyboard, the amount of fire tokens and a luxury item, and output how many of those luxury items a castaway can buy with the given tokens. **YOUR SOLUTION MUST NOT BE WRITTEN IN THE `"survivor.py"` FILE AND MUST INCLUDE THE `"survivor.py"` FILE.**

#Example 1:

Enter amount of fire tokens: 10

Enter luxury item: hidden immunity idol(s)

You can buy 3 hidden immunity idol(s) with 10 fire token(s)

#Example 2:

Enter amount of fire tokens: 5

Enter luxury item: jar(s) of peanut butter

You can buy 5 jar(s) of peanut butter with 5 fire token(s)

b) BRIEFLY explain why the strings defined at the top of the `"survivor.py"` file are not being outputted.