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## **Practice Quiz: Dictionaries**

## TOTAL POINTS 5

The email\_list function receives a dictionary, which contains domain names as keys, and a list of users as values.
 Fill in the blanks to generate a list that contains complete email addresses (e.g. diana.prince@gmail.com).

1 / 1 point

The groups\_per\_user function receives a dictionary, which contains group names with the list of users. Users can belong to multiple groups. Fill in the blanks to return a dictionary with the users as keys and a list of their groups as values. 1 / 1 point

```
def groups_per_user(group_dictionary):
              user_groups = {}
# Go through group_dictionary
              for group, users in group_dictionary.items():
                   # Now go through the users in the group
                   for user in users:
                        # Now add the group to the the list of
                        if user in user_groups: user_groups[user].append(group)
         else: user_groups[user] = [group]
# groups for this user, creating the entry
# in the dictionary if necessary
   10
   11
   12
              return(user groups)
   13
   14
         print(groups_per_user({"local": ["admin", "userA"],
   15
                   "public": ["admin", "userB"],
"administrator": ["admin"] }))
   16
{'admin': ['local', 'public', 'administrator'], 'userA': ['local'], 'userB': ['public']}
```

Well done, you! You're now creating dictionaries out of other dictionaries!

3. The dict.update method updates one dictionary with the items coming from the other dictionary, so that existing entries are replaced and new entries are added. What is the content of the dictionary "wardrobe" at the end of the following code?

1 / 1 point

```
1 wardrobe = {'shirt': ['red', 'blue', 'white'], 'jeans': ['blue', 'black']}
2 new_items = {'jeans': ['white'], 'scarf': ['yellow'], 'socks': ['black', 'brc']
3 wardrobe.update(new_items)
```

- ('jeans': ['white'], 'scarf': ['yellow'], 'socks': ['black', 'brown'])
- ('shirt': ['red', 'blue', 'white'], 'jeans': ['white'], 'scarf': ['yellow'], 'socks': ['black', 'brown'])
- ('shirt': ['red', 'blue', 'white'], 'jeans': ['blue', 'black', 'white'], 'scarf': ['yellow'], 'socks': ['black', 'brown']}
- ('shirt': ['red', 'blue', 'white'], 'jeans': ['blue', 'black'], 'jeans': ['white'], 'scarf': ['yellow'], 'socks': ['black', 'brown']}

Correct

Correct! The dict.update method updates the dictionary (wardrobe) with the items coming from the other dictionary (new\_items), adding new entries and replacing existing entries.

- Dictionaries are ordered sets
   Dictionaries can be accessed by the index number of the element
   Elements can be removed and inserted into dictionaries
   it's quicker and easier to find a specific element in a dictionary
- Correct
  Right on! Because of their unordered nature and use of key value pairs, searching a dictionary takes the same amount of time no matter how many elements it contains

5. The add\_prices function returns the total price of all of the groceries in the dictionary. Fill in the blanks to complete this function.

1/1 point

```
def add_prices(basket):
              # Initialize the variable that will be used for the calculation
               total = 0
               # Iterate through the dictionary items
               for price in basket.values():
                   # Add each price to the total calculation
# Hint: how do you access the values of
                    # dictionary items?
                    total += price
              # Limit the return value to 2 decimal places
return round(total, 2)
   10
11
         groceries = {"bananas": 1.56, "apples": 2.50, "oranges": 0.99, "bread": 4.59
| "coffee": 6.99, "milk": 3.39, "eggs": 2.98, "cheese": 5.44}
   13
   14
                                                                                                 Run
   16
         print(add_prices(groceries)) # Should print 28.44
                                                                                                Reset
   17
28.44
```

Correct

Nicely done! Dictionaries are a helpful way to store information, and access it easily when it's needed.