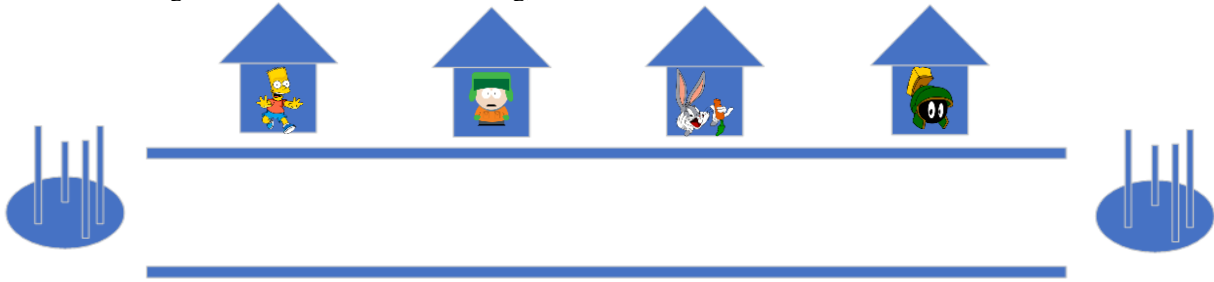


Name _____ Period _____

Skill 7.1 Exercise 1

Refer to the image below to answer the following.



Indicate the address (index) of each house by writing it on the roof.

Who lives at index = 0?

Who lives at index = 2?

If the houses on the street represent a list, how long is the list?

Who lives at index = 4?

What is Marvin's address?

What is Kyle's address?

Skill 7.2 Exercise 1

Refer to the image below,



Write code that could be used to create a list called houses and populate the list with the people who live in the houses.

Skill 7.2 Exercise 2

Create a new list called `bart_height_and_testscore` that contains:

1. The string "Bart" (to represent Bart's name)
2. The number 60 (to represent Bart's height)
3. The float 85.5 (to represent Bart's score)
4. The boolean True (to represent Bart passing the test)

Name _____ Period _____

Skill 7.2 Exercise 3

Create an empty list and call it *orders*. Don't put anything in the list just yet.

Skill 7.3 Exercise 1

Jiho works for a gardening store called Petal Power. Jiho keeps a record of orders in a list called *orders* (declared above). Jiho just received two new orders for "tulips" and "roses". Use *append* to add these to the *orders* list. Then print the results.

Skill 7.4 Exercise 1

Jiho is updating a list of orders. He just received orders for "lilac" and "iris". Create a list called *new_orders* that contains the new orders.

```
orders = ["daisy", "buttercup", "snapdragon", "gardenia", "lily"]
```

Use *+* to create a new list called *orders_combined* that combines *orders* with *new_orders*.

The code below has an error, fix the error.

```
broken_prices = [5, 3, 4, 5, 4] + 4
```

We need to keep track of the prices for each of the orders. We know there are 5 orders and need to create a list to store the values. Create a list of 5 values. Set the default value to 0.0.

Name _____ Period _____

Skill 7.5 Exercise 1

Refer to the employees list below,

```
employees = ["Michael", "Dwight", "Jim", "Pam", "Ryan", "Andy", "Robert"]
```

Use square brackets ([and]) to access the 4th employee from the list employees. Save it to the variable `employee_four`.

What is printed when the code below executes,

```
print(employees[8])
```

Skill 7.5 Exercise 2

Refer to the `shopping_list` list below,

```
shopping_list = ["eggs", "butter", "milk", "cucumbers", "juice", "cereal"]
```

Assign the last element in `shopping_list` to the variable `last_element` using a negative index.

Now select the element with index 5 and save it to the variable `index5_element`.

Print `index5_element` and `last_element`. What is printed?

Name _____ Period _____

Skill 7.6 Exercise 1

We have decided to start selling some of our garden produce. Word around our town has spread and people are interested in getting some of our delicious vegetables and fruit. We decided to create a waitlist to make sure we can sell to all of our new customers!

Define a list called `garden_waitlist` and set the value to contain our customers (in order): "Jiho", "Adam", "Sonny", and "Alisha".

"Adam" decided his fridge is too full at the moment and asked us to remove him from the waitlist and make space for one of our other townsfolk.

Replace "Adam" with our other interested customer "Calla".

Alisha realized she was already stocked with all the items we are selling. She asked us to replace her with her friend Alex who just ran out.

Replace Alisha with Alex *using a negative index*.

Skill 7.7 Exercise 1

We have decided to get into the grocery store business. Our manager Calla has decided to store all the inventory purchases in a list to help track what products need to be ordered.

Create a list called `order_list` with the following values (in this particular order):

"Celery", "Orange Juice", "Orange", "Flatbread"

We are in luck! We actually found a spare case of "Flatbread" in our back storage. We won't need to order it anymore. Remove it from `order_list` using the `remove()` method.

Name _____ Period _____

Our store has grown to be a huge success! We decided to open a second store and require a new order list. Calla has done us the favor of putting one together.

Create a new list called *new_store_order_list* and assign it the following values (in order):

"Orange", "Apple", "Mango", "Broccoli", "Mango"

We are in luck again! We actually found a spare case of "Mango" in our back storage. We won't be needing to place two orders anymore. Remove it from *new_store_order_list* using the *remove()* method.

What is printed when the code below executes,

```
new_store_order_list.remove("Onions")
```

Skill 7.8 Exercise 1

In the previous exercise, we got an error when we tried to remove "onions" from the *new_store_order* list below,

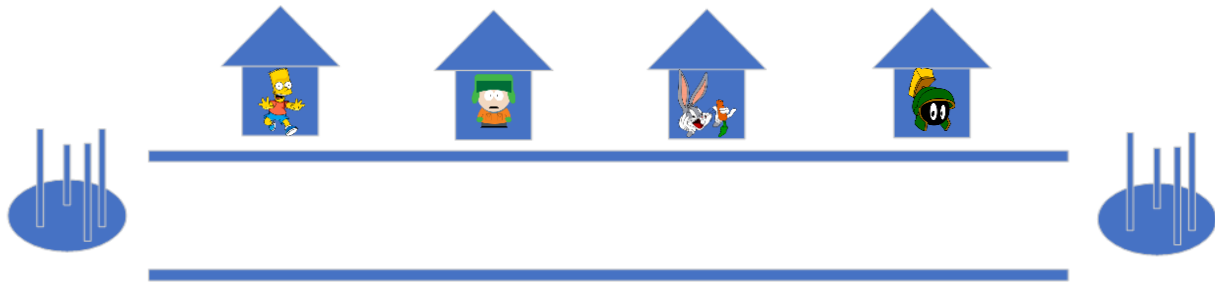
"Orange", "Apple", "Mango", "Broccoli", "Mango"

Use the *in* operator to check if onions is in the list. If it is found, then remove "onions"

Name _____ Period _____

Skill 7.9 Exercise 1

Consider the houses below, which can be represented as a list named `houses`.



Print the length of the list.

Kyle's buddies, Stan and Kenny would like to move into the neighborhood. Add Stan and Kenny to the `houses` list.

Suppose you have no idea how many houses there are on the street. How might you access the person living in the last house? Do this two ways.