

1. Given a list of filenames, we want to rename all the files with extension hpp to the extension h. To do this, we would like to generate a new list called newfilenames, consisting of the new filenames. Fill in the blanks in the code using any of the methods you've learned thus far, like a for loop or a list comprehension.

1 point

```
filenames = ["program.c", "stdio.hpp", "sample.hpp", "a.out", "math.hpp", "hpp.out"]

# Generate newfilenames as a list containing the new filenames

# using as many lines of code as your chosen method requires.

hewfilenames = [x.replace("hpp","h")] if x.endswith("hpp") else x for x in filenames]

print(newfilenames)

# Should be ["program.c", "stdio.h", "sample.h", "a.out", "math.h", "hpp.out"]

Reset

['program.c', 'stdio.h', 'sample.h', 'a.out', 'math.h', 'hpp.out']
```

2. Let's create a function that turns text into pig latin: a simple text transformation that modifies each word moving the first character to the end and appending "ay" to the end. For example, python ends up as ythonpay.

1 point

```
def pig_latin(text):
         say = ""
   3
          # Separate the text into words
   4
         words = text.split()
   5
          for word in words:
           # Create the pig latin word and add it to the list
          say += word[1:] + word[0] + "ay" + " '
   7
   8
           # Turn the list back into a phrase
   a
         return say
  10
  11
       print(pig_latin("hello how are you")) # Should be "ellohay owhay reaay ouyay"
                                                                                                               Run
        print(pig_latin("programming in python is fun")) # Should be "rogrammingpay niay ythonpay siay unfay
ellohay owhay reaay ouyay
rogrammingpay niay ythonpay siay unfay
```

3. Which list method can be used to add a new element to a list at a specified index position?

1 point

- O list.pop(index)
- list.insert(index, x)
- O list.add(index, x)
- O list.append(x)
- 4. Tuples and lists are very similar types of sequences. What is the main thing that makes a tuple different from a list?

1 point

- A tuple is mutable
- O A tuple contains only numeric characters

- A tuple is immutable
- A tuple can contain only one type of data at a time
- 5. The group_list function accepts a group name and a list of members, and returns a string with the format: group_name: member1, member2, ... For example, group_list("g", ["a","b","c"]) returns "g: a, b, c". Fill in the gaps in this function to do that.

1 point

6. The guest_list function reads in a list of tuples with the name, age, and profession of each party guest, and prints the sentence "Guest is X years old and works as __." for each one. For example, guest_list(('Ken', 30, "Chef"), ("Pat", 35, 'Lawyer'), ('Amanda', 25, "Engineer")) should print out: Ken is 30 years old and works as Chef. Pat is 35 years old and works as Lawyer. Amanda is 25 years old and works as Engineer. Fill in the gaps in this function to do that.

1 point

```
def guest list(guests):
   2
            for guest in guests:
                print("{} is {} years old and work as {}.".format(guest[0],guest[1],guest[2]))
   4
        guest_list([('Ken', 30, "Chef"), ("Pat", 35, 'Lawyer'), ('Amanda', 25, "Engineer")])
   6
        #Click Run to submit code
   8
       Output should match:
  10
       Ken is 30 years old and works as Chef
  11 Pat is 35 years old and works as Lawyer
  12
       Amanda is 25 years old and works as Engineer
                                                                                                                Run
                                                                                                                Reset
Ken is 30 years old and work as Chef.
Pat is 35 years old and work as Lawyer.
Amanda is 25 years old and work as Engineer.
```

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