```
# Turn in your hand-written answers at the beginning of class. Be sure to include your name.
# At 12 noon before class, post a dictionary of your answers to GitHub in the assignments directory.
# The format of this dictionary should be answerDict = {1:answer1, 2:answer2, ..., N:answerN}.
# These four variables are defined here, and are used throughout the assignment.
city = "sacramento"
cityAsList = list(city)
vowels = "aeiou"
consonants = "bcdfqhiklmnpqrstvwxvz"
# String and list guestions.
# 1) What is the value of c?
c = city[0:]
# 2) What is the value of c?
b = int(len(city)/2)
c = city[0:b]
# 3) What is the value of c?
b = int(len(citv)/2)
c = citv[0:-b]
# 4) What is the value of c?
b = int(len(city)/2)
d = b - 1
c = citv[d:b]
# 5) What is the value of c?
b = int(len(city)/2)
c = citv[:b]
```

```
# 6) What is the final value of the string orwell?
l1 = ["Who", " ", "controls", " ", "the", " ", "past", ",", " ", "controls", " ", "the", " ", "past", ",", " ", "controls", " ", "the", " ", "past", ",", " ", "controls", " ", "the", " ", "past", ".", "\n"] orwell = ""
for x in l1 + l2:
       orwell += x
# 7) What is the final value of the string orwell?
orwell = ""
l1[6] = "present"
l1[13] = "past"
for x in l1 + l2:
       orwell += x
# 8) What is the final value of the string orwell?
orwell = ""
12[6] = "past"
l2[13] = "future"
for x in l1 + l2:
       orwell += x
# 9) What is the final value of the string orwell?
orwell = ""
12[6] = "past"
l2[13] = "future"
for x in l1 + l2:
       orwell += x
13 = orwell.split("past")
orwell = ""
for x in 13:
       if "Who" in x:
               orwell += (x + "past")
        else:
               orwell += x
# 10) What is the value of i after the statement is evaluated?
i = 0
if "e" in city:
       i += 1
```

```
# 11) What is the value of i after the statement is evaluated?
i = 0
if "e" not in consonants:
      i += 1
# 12) What is the value of i after the statement is evaluated?
i = 0
if "e" not in city:
     i += 1
else:
      i -= 1
# Loop questions.
# 13) What is the value of i after the while loop runs to completion?
# There are three statements (i.e. lines) in this loop.
      14) Which statement is inside the loop?
      15) Which statement is outside the loop?
# 16) What is the term that describes the expression (i < len(city))?
i = 0
while i < len(city):
     i += 1
# 17) What is the value of earth after the while loop runs to completion?
earth = 0
while earth < len(city):</pre>
     earth += 1
# 18) What is the value of i after the for loop runs to completion?
i = 0
for x in city:
     i += 1
# 19) What is the value of i after this code runs to completion?
i = 0
for x in citv:
      i += 1
for x in city:
     i += 1
```

```
# 20) What is the value of i after the while loop runs to completion?
i = len(citv)
while i > 0:
      i -= 1
# 21) What is the value of i after the while loop runs to completion?
i = len(city)
j = int(len(city)/2)
while i > len(city[0:j]):
      i -= 1
# 22) What is the value of i after this code runs to completion?
i = 0
for x in city:
      if x in vowels:
            i += 1
# 23) What is the value of i after this code runs to completion?
i = 0
for x in city:
      if x not in consonants:
            i += 1
# 24) What is the value of i after this code runs to completion?
i = 0
for x in city:
      if x not in consonants:
            continue
      else:
            i += 1
# 25) What is the value of i after this code runs to completion?
i = 0
for x in city:
      if x in consonants:
            i += 1
```

```
# 26) What is the value of i after this code runs to completion?
i = 0
for x in citv:
      if x not in consonants:
            i += 1
# 27) What are the values of i and j after this code runs to completion?
i = 0
i = 0
for x in city:
      if x in vowels:
            j += 1
      i += 1
# 28) What are the values of i and j after this code runs to completion?
i = 0
i = 0
for x in citv:
      if x in vowels:
            i *= 2
      i += 1
# 29) What are the values of i and j after this code runs to completion?
i = 0
i = 0
for x in city:
      if x not in vowels:
            i *= 1
      i += 2
# 30) What are the values of i and j after this code runs to completion?
i = 0
i = 0
for x in city:
      if x == "e":
            i *= 1
      i += 1
```

```
# 31) What are the values of i and j after this code runs to completion?
i = 0
j = 0
for x in city:
       if x != "e":
              i *= 1
       i += 1
# 32) What are the values of i and j after this code runs to completion?
i = 0
i = 0
for x in city:
       if x == "e":
              break
       i += 1
# 33) What are the values of i, j, k after this code runs to completion?
i = 0
j = 0
\dot{k} = 0
for x in city:
       i = 0
       while j < len(city):
              k += 1
              i += 1
       i += 1
i = 0
i = 0
\dot{k} = 0
a = 0
for x in city:
       i = 0
       while i < len(city):
              if city[j] in vowels:
                     a += 1
              k += 1
              j += 1
       i += 1
```