

# Introduction to Python

## Worksheet 1: Data Structures

Your Name: \_\_\_\_\_

Today's Date: \_\_\_\_\_

```
1.  animals = ['pig', 'dog', 'cat', 'zebra', 'monkey']
>>> len(animals)
_____
>>> animals[2]
_____
>>> animals[:-2]
_____
>>> sorted(animals)
_____
>>> animals[:2]
_____

2.  students = {'Dora':6, 'Akeel':7, 'Timmy':7, 'Maya':8}
>>> students['Akeel']
_____
>>> len(students)
_____
>>> students.keys() # hint: returns a list
_____
```

```

3.  movie = 'Pirates of the Caribbean'

>>> movie[:_____] # slice from beginning
'Pirates'

>>> movie.find('of')

_____

>>> movie.endswith('N') # hint: True or False

_____

>>> movie.replace('Pirates', 'Islands')

_____

>>> movie.title()

_____

4.  cities = {'Portland' : [('W',45,31), ('N',122,41)],
              'San Diego': [('W',32,42), ('N',117,10)] }

>>> cities['Portland'] # hint: a list

_____

>>> cities['San Diego'][1] # hint: a tuple

_____

>>> cities['Portland'][1][1] # hint: an integer

_____

>>> Add 'Reno' to cities, located at 39°30'N 119°49'W,
      using the same format as above (hint: a list)

_____ = _____

```