

Variables, lists and objects

Computer & Information Sciences

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Objectives

- Discuss how variables, lists and objects are stored.
- Demystify programming language.

Variables

```
x = 10      # Create variable and assign value.  
print(x)    # Use value and print it.
```

"x" refers to start of memory

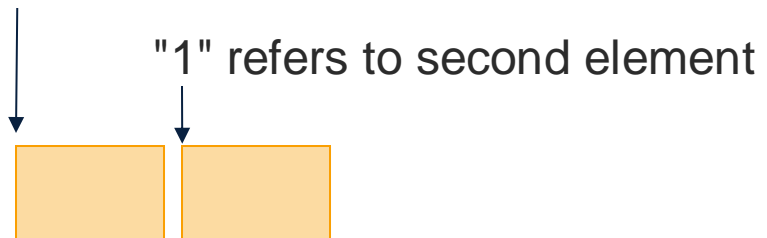


Size of memory set by type

Lists

```
x = [1,2]    # Create list and assign values.  
print(x[1])  # Print the second element.
```

"x" refers to start of memory



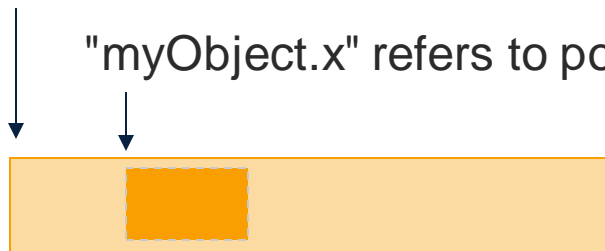
Size of memory set by type

Objects

```
myObject = MyClass()    # Create object and assign it.  
print(myObject.x)       # Use data member and print it.
```

"myObject" refers to start of memory

"myObject.x" refers to position within object



Size of memory set by type



Size of memory set by Class