Python Chapter 2: Arrays and For Loops

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Dictionary

Here we will discuss the most basic example of a Dictionary. They are for key value pairs. Now in python, dictionaries are ordered meaning you can iterate them easily

x = "Jim": 1, "Tom": 2

x["Jim"] # this will return a 1

x["Tom"] # this will return a 2

Dictionary Removal

```
x = {"Jim": 1, "Tom": 2}
x.remove("Jim")
if "Jim" not in x:
  print("Jim has left")
```

Dictionary Additon

```python
x = {"Tom": 2}
x.add("Jim")
if "Jim" in x:
    print("Jim is back")
```

Dictionary Looping

```
x = {"Jim": 1, "Tom": 2, "Kerrie": 3}
for p in x:
    print(p) \# prints all keys
for v in x:
    print(v) \# prints all values
```

Sets

Sets are a lot like dictionaries, but they contain only one key!
Great for checking when you have visited something.
mySet = "apple", "banana", "cherry"

if "apple" in myset:

print("There is an apple in myset")

Exercise Two Sum

Given an array of integers and a target t, find two numbers whose sum is t