CompSci 101
Introduction to Computer Science

January 29, 2015
Prof. Rodger
Announcements

• Reading, RQ07 due next time
• Assignment 3 due Tuesday
• APT 2 due today, APT 3
• Exam 1 – Feb 12
  – try practice test by Feb 10
  – Accommodations? Reschedule? Fill out forms!
• Prof Rodger – out all next week at a conference
  – (yes you still have class, labs, etc)

• Finish notes from last time (APT Emphasize)
APT Emphasize
bit.ly/101S15-0129-01
Strings – What is output?

bit.ly/101S15-1029-02

```python
name = "Darth Vater"
print name.lower()
nameV = "VVDDarth VaterVVV"
print name.strip("V")
print nameV.strip("VV")
print nameV.strip('V')
print name.find("Vater")
print name.find("D")
print name.replace("Vat", "Tat")
print "mississippi".replace("ss", "pp")
print "type".endswith("e")
print "type".startswith("e")
print name.replace("a", "o").lower()
```
Lists

• A list is a collection of objects

scores = [99, 78, 91, 84]

allAboutMe = [“Mo”, 25, “934-1234”]


• Lists are mutable – use [num] to change a value

• Lists are indexed starting at 0, or -1 from the end

• Functions: max, min, len, sum

• Slice lists [:]
List Examples

```python
scores = [10, 8, 10, 9]
print scores
scores[2] = 5
print scores
print max(scores)
print len(scores)
print sum(scores)
print scores[1:]
print scores[1]
```
List before/after modification

score = [10,8,10,9]

score [2] = 5

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Processing List Items

• Process all the items in a list, one item at a time
• Format: for variable in list:
  block

• Example:

  sum = 0
  nums = [6, 7, 3, 1, 2]
  for value in nums:
    sum = sum + value
  print sum