

Outline for February 20

Reading: *text*, §8

Assignments: Homework 4, due on March 4 at 11:55pm

1. Modules
 - a. `import module` imports file “module.py”; prefix methods defined there with “module.” to call them (eg, `module.func()`)
 - b. `from module import func` imports method “func()” from *module*; just call `func()`; don’t prefix it with “module.”
 - c. `from module import *` imports all the methods, like the method above
 - d. `import module as m` lets you write “m.func()” rather than “module.func()”
2. Namespaces
3. Searching
 - a. What is it
 - b. Why it is an important problem
4. Linear search
 - a. Look at each element
 - b. Unordered list: as good as any [*search-1c.py*]
 - c. Ordered list: go until you pass where the value would be [*search-2c.py*]
5. Binary search
 - a. Ordered list only: how it works
 - b. Example [*search-3c.py*]
6. Sorting
 - a. Why it is important
 - b. A bit of history