Homework 1

CPE 593

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1. **O(n2)**
   1. **O(n)**
   2. **O(n)**
   3. **O(n)**
   4. **O(n)**
   5. **O(n), Ω(1)**
   6. **O(n)**
   7. **O(n)**
   8. **O(nm)**
2. **This will return the index of the heavy bottle in a Python list:**

**def heavy\_bottle(index, bottles):**

**if bottles[index] > 1.0:**

**return index**

**return heavy\_bottle(index + 1, bottles)**