Name:

Date:

Class: CS 160

Assignment #6

1) Look up what a **deadlock** is in relation to computers/CPUs, write a paragraph describing what you learned. (Four Points)

2) Research what a ‘boot loader’ is. What does it do? (Three Points)

1. **Loads the operating system**

3) What are three required traits of an algorithm? (Three Points)

1. **Can and will execute properly**
2. **Has an end result**
3. **Clear and ordered instructions to follow**

4) Describe what Big O notation is (two to three sentences). (Four Points)

5) Use insertion sorting to sort this list. (Six Points)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Initial List | 85 | 29 | 41 | 76 | 22 | 8 |
| Pass 1 | **29** | **85** | **41** | **76** | **22** | **8** |
| Pass 2 | **29** | **41** | **85** | **76** | **22** | **8** |
| Pass 3 | **29** | **41** | **76** | **85** | **22** | **8** |
| Pass 4 | **22** | **29** | **41** | **76** | **85** | **8** |
| Pass 5 | **8** | **22** | **29** | **41** | **76** | **85** |