

CMSC131 Fall 2004 Quiz #7, Duration 25 Minutes

First Name:

Last Name:

Student Id:

Section time (10am/11am):

TAs:

Problem Description

A class called **WaitList** represents a set of students waiting to get into a course. The class relies on a Student class defined as follows:

```
/* YOU MAY NOT MODIFY THIS CLASS */
```

```
public class Student {
    private String name;
    private int id;

    public Student(String sname, int sid) {
        name = sname;
        id = sid;
    }

    public Student(Student student) {
        name = new String(student.name);
        id = student.id;
    }

    public int getId() {
        return id;
    }

    public String toString() {
        return name + " " + id;
    }
}
```

For this quiz you will implement the **WaitList** class. The class specifications are:

Instance Variable

Student[] array; // Array that represents the list of students

Methods

- **Constructor** – Creates a waitlist with no students.
- **add** – This method takes as parameter a reference to the student to be added. The method makes a copy of the student object and adds the copy to the end of the array representing the waitlist. The size of the array will be increased by one.
- **toString** – Returns a string with the name and id of every student in the waitlist. Information about each student will appear on a line by itself.

WRITE YOUR IMPLEMENTATION ON THE NEXT PAGE

WRITE YOUR IMPLEMENTATION ON THIS PAGE