

Quiz 6

Name: _____

Instructions:

1. **Wait to start until the TA tells you to do so. Do not turn the page yet.**
2. You will have fifteen minutes to complete the question.
3. Please turn in this quiz sheet when finished. You may either sit quietly at your desk (no laptops), or, preferably, leave the room and return when the quiz is over for the class.

Problem 1 (out of 100 points)

Imagine the user specifies an `ArrayList` of `Person` objects, where `Person` is a class shown below. These `Person` objects have been initialized elsewhere. Write code (that is in a file that is NOT in `Person.java`) that uses the appropriate method of the `Person` class to sum up all the ages of all the people in the `ArrayList` passed in as an argument, called `input`, to this method called `sumAges`. **You will need to fill in the blanks below, using generics for full credit.**

```
public class Person {
    private String name;
    private int age;

    public Person(String name, int age) {
        this.name = name;
        this.age = age;
    }

    public String getName(){
        return name;
    }

    public int getAge(){
        return age;
    }
}
```

```
// the method below will be in another file outside of Person.java
```

```
public static _____ sumAges(_____ input){  
    // your solution below that sums all the ages of all the people in input
```

```
}
```