Program 702p

Program Description: You are to write a program that keeps track of a bunch of animals. Each animal has one name and one word they like to use best. There are then three different types of animals. The first type of animals, the hiccas, they like to keep track of how much money their fur is worth. The second type of animals, the wallies, they keep track of how many steps they take each and every day. The third type of animals are the beepers, the beepers use a special extra word every time they talk.

You are to calculate the average amount each of the hiccas' fur is worth, the total number of steps taken by the wallies and the average size of the extra word that the beepers use. You are also supposed to print the total number of animals in your whole group. You are to print the number of animals in each group. For extra credit, you are to print the letter that appears most often in the all of the beepers words put together. The data file will be denoted by a 1 for hicca, 2 for wallies and 3 for beepers. There will be a 99 to signify the end of the data file.

The input file begins with a category number, the first name, the last name and finally either the value of the hicca's fur, the number of steps for a Wallie or the special extra word of a Beeper depending on the category number.

Required Statements: Interface, Superclass, subclass, ArrayList

You should use the following interface:

```
public interface names
{
      public String getName();
      public String getWord();
}
```

Data Location: prog701g.dat

Sample output is:

The average value of the Hicca fur is: 3.06 The average number of steps taken by the Wallies is: 63.2 The average size of the Beepers words is: 7.25

EXTRA CREDIT:

The most common letter(s) in all the Beepers' words is: a e

GENERAL INFO FROM A MORE ELABORATE PRINTING OF THE DATA

Hicca's name is: Billy Buckner

Its fur is worth: \$3.25

Wallie's name is: Fred Ballony Wallie has taken: 28.0 steps.

Beeper's name is: Nick Cuccia Beepers word is: coolbeans

Hicca's name is: Murray Cox

Its fur is worth: \$4.0

Hicca's name is: Carly Seifert

Its fur is worth: \$2.58

Hicca's name is: Elias Smith

Its fur is worth: \$3.22

Wallie's name is: Katy Rumberger Wallie has taken: 45.0 steps.

Wallie's name is: Tanya Barton Wallie has taken: 78.0 steps.

Wallie's name is: Casey Bats Wallie has taken: 97.0 steps.

Wallie's name is: Brandon Davis Wallie has taken: 68.0 steps.

Beeper's name is: Ingrid Sink Beepers word is: superdude

Beeper's name is: Nico Binge Beepers word is: attaway

Beeper's name is: Mike Break

Beepers word is: done

Hicca's name is: Brad Williamson

Its fur is worth: \$2.75

Hicca's name is: Lorenzo Rapp

Its fur is worth: \$2.55

The fur sum is: 18.35 Num Hiccas: 6

The number of steps is: 316

Num Wallies: 5

The length of the extra Words is: 29

Num Beepers: 4

The average value of the Hicca fur is: 3.06

The average number of steps taken by the Wallies is: 63.2

The average size of the Beepers words is: 7.25

EXTRA CREDIT:

The most common letter(s) in all the Beepers' words is: a e