**Exercise 1 Array Basics**

1. Write array declarations for each of the following:
2. Eight grade point averages
   1. Int gradePointAverage [] = new int [8];
3. Five first names
   1. String firstName [] = new String [5];
4. 21 ages
   1. Int ages [] = new int[21];
5. Declare and initialize arrays that store the following:
   1. The whole numbers 9, 36, 36, 54, and 65
      1. Int numbers [] = {9, 36, 36, 54, 65};
   2. The last names Smith, Johnson, and Hanson:
      1. String lastNames [] = {“smith”, “Johnson”, “Hanson”};
   3. The price 12.00, 101.00, and 3.50
      1. Double price [] = {12.00, 101.00, 3.50};
6. Write an assignment statement that assigns the value 999 to the first element of an array of integers named idNumbers.

Int idNumbers[];

idNumbers [0] = 999;

**Exercise 2 Searching An Array for an Exact Match**

String apples[] = {“Garla”, “Rome”, “Fuji”, “Delicious”};

Int foundIt, i;

Final int MAX\_APPLES = 4;

String inApple;

inApple = JOptionPane.showInputDialog(“Enter apple type:”);

for(I = 0; i <= MAX\_APPLEs; i++)

{

If(inApple == apples[i])

{

foundIt = true;

}

}

1 . Is the for loop written correctly? If not, how can you fix it?

No it should be for(I = 0; i <=MAX\_APPLEs; i++)

2. Which variable is the flag?

foundIt

3. Is the flag variable declared correctly? If not, what should you do to fix it?

No Boolean foundIt = false;

4. Is the comparison in the if statement done correctly? If not, how can you fix it?

inApple.equals(apples[i])