**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])