CSCI 2170 Homework 3 Name _____

1. Define enum type, **coinType**, to represent the different types of coins (Penny, Nickel, Dime, Quarter, Dollar)

2. Declare an integer array of size 5. Each element of the array will be used to store the number of a particular type of coin in a coin collection, e.g., first element of the array will store the number of Pennies, second element of the array stores the number of nickels, etc.. Show C++ statement to read the number of coins of each coin type from user and compute the total $ amount in the coin collection. You need to use enum type variable as loop control variable in your code.

3. (a) ¨What's wrong with this code?

```
coinType  newCoin;
newCoin = Dime;
newCoin++;
```

   (b) ¨What's wrong with this pair of enum type declarations?

```
enum Colors {RED, ORANGE, BLUE, GREEN, VIOLET};
enum Flowers {ROSE, DAFFODIL, LILY, VIOLET, ORCHID, COSMOS};
```

4. Use bubble sort to sort the values in the following array in ascending order. Show the content of the array after each pass of sorting as shown in class.

```
int array[12]={4, 6, 2, 0, 34, 24, 7, 15, 9, 11, 33, 16};
```