47. Write a statement that defines an array of five objects of the Circle class in question 45. Pass the following arguments to the elements’ constructor: 12, 7, 9, 14, and 8.

Circle obs[5] = {12,7,9,14,8};

48. Write a for loop that displays the radius and area of the circles represented by the array you defined in question 47.

for (int i = 0; i < 5; i++){

cout << “Radius: ” << obs[i].getRadius();

cout << “Area: ” << obs[i].getArea();

}

49. If the items on the following list appeared in a problem domain description, which would be potential classes?

~~Animal~~ ~~Medication~~ Nurse

~~Inoculate~~ ~~Operate~~ ~~Advertise~~

Doctor Invoice ~~Measure~~

~~Patient~~ ~~Client~~ Customer

* Because Customer, Client and Patient are all the same thing, we can pick one of them (Customer). Also, we can pick one of Medication, Inoculate and Measure (Medication).
* Nouns that do not belong with the domain (Animal and Advertise)
* Operate is an object rather than a class, so we can exclude it.
* Doctors and Nurses both could be seen with methods that could interact with Customers, and have obvious actions that need to be performed by them, so they can be considered classes.