Signature _____ **CSE 11** **Name** _____

Quiz 5

cs11f ____ **Fall 2008** **Student ID** _____

This quiz is to be taken **by yourself** with closed books, closed notes, no calculators.

Write a method named **dSum()** that takes an array of **double**s as a parameter and returns the sum of all elements in the array. Use the standard **for** loop; do not use the enhanced **for**/**foreach** loop. (I will ask you to use the enhanced for/foreach loop on the Final.)

Fill in the blanks to complete this method definition.

```
public _________________ dSum( ____________________ array )
{
  _____________ sum = _____________;

  for ( ____________________; _____________________; ___________________ )
  {
    ___________________________________________;
  }

  return _________________;
}
```

Fill in the blanks in the code to correctly produce the multiple array layout below:

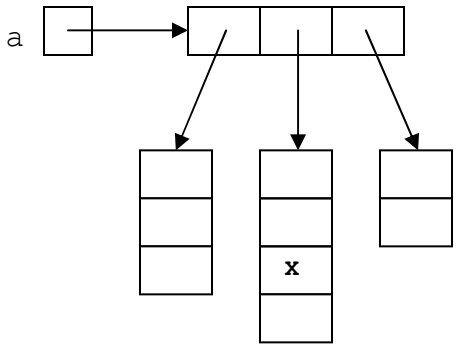
```
int[][] a;

a = new int[___][];

a[___] = new int[___];

a[0] = new int[___];

a[___] = new int[4];
```



Write the assignment statement to set the array element marked by the X to the value 42.

The Java keyword which denotes inheritance of implementation is _____.

The Java keyword which denotes inheritance of interface is _____.

_____ gives a "has a" relationship while _____ gives us an "is a" relationship.

The two main features of a constructor definition which distinguishes it from a method definition are:

1)

2)

In the last HW assignment with the Shapes hierarchy, indicate which statements are valid and which are invalid.

```
ARectangle ref1 = new Square( 100, 200, 50 );
Point p = ref1.getUpperLeft();  _____________
int length = ref1.getSide();  _____________
ref1 = new ARectangle( "Rectangle", 100, 200 );  _____________
```

In a toString() method defined in a subclass, how do you get the String representation of the superclass private parts assuming the superclass toString() is defined correctly and there are no non-private accessor methods?

In the equals() method, how do you check for exact type equality between this object and the object referenced by the parameter reference o?

```
if ( _____________________   ______  _____________________ )
{
  return false;
}
```

Given the following class definition:

```
public class Quiz5
{
  private int q5 = 5;
}
```

Write the equivalent class definition explicitly showing what the Java compiler implicitly inserts by default.