**C# Homework 11**

**Question 1**

What is a parameter array?

**Answer**

You can pass a variable number of arguments to a method. You indicate a params array by using the params keywords as an array parameter modifier when you define the method parameters.

int min = Util.Min(first, second);

The compiler translates this call into code similar to this:

int[] array = new int[2];

array[0] = first;

array[1] = second;

int min = Util.Min(array);

**Question 2**

How do you define a method that takes an arbitrary number of arguments?

**Answer**

"The params keyword lets you specify a method parameter that takes a variable number of arguments. You can send a comma-separated list of arguments of the type specified in the parameter declaration, or an array of arguments of the specified type. You also can send no arguments.

class Util

{

public static int Min(params int[] paramList)

{

// code exactly as before

}

}

**Question 3**

How do you call a method that takes an arbitrary number of arguments?

**Answer**

As long as the method was defined with the params keyword you can call it with the keyword. There is no min or max number.

**Question 4**

Why can’t you use an array to pass an arbitrary number of a method?

**Answer**

Because you have to know the size of the array.

**Question 5**

How many parameters can a method have?

**Answer**

A method can have as parameters as it wants.

**Question 6**

Do parameter arguments have to have the same type?

**Answer**

They may have to have the same type. Normally the answer is yes. If it is int array all have to int arrays. However if you declare an array of type object it can be anything because everything is an object.

**Question 7**

What is the difference between a method that takes a parameter argument and one that takes optional arguments?

**Answer**

Optional arguments are still a fixed size.

**Question 8**

How do you define a method that takes different (and arbitrary) types of arguments?

**Answer**

You use params keyword and type parameters object.

**Question 9**

Write a method that accepts any number of arguments of a given type.

**Answer**

Wrote them in the lab we did.

**Question 10**

Write a method that accepts any number of arguments of any type.

**Answer**

Wrote them in the lab we did.