Question 67: Sending an array to a method could take a longtime if the array were big. How are arrays passed to methods?

Answer 67: Arrays are reference type variable, so a reference to the array is passed and no copy of the data is sent. This means changes to an array inside a method are visible in the calling code.

```
using static System.Console;
class Program
    static void Main()
         double[] array = { 1, 2 };//1. Sets array of doubles
        //2. Line below prints array values before ChangeArray is called
        WriteLine($"Before: [{array[0]},{array[1]}]"); Before: [1,2]
         //3. ChangeArray is called, with the array as the argument
        ChangeArray(array);
        //4. Line below prints values from array to show they are different
        WriteLine($"After:[{array[0]},{array[1]}]"); After:[10,7]
    static void ChangeArray(double[] arr)//5. ChangeArray accepts an array
         arr[0] = 10; //6. Change entry at index 0
         arr[1] = 7;//7. Change entry at index 1
    }
                                                                      Before ChangeArray
                                                                      is called
                          static void Main()
                                                                                {double[2]}
                                                                      array
                             double[] array = { 1, 2 };
                                                                       (0]
                                                                       [1]
                             WriteLine($"Before: [{array[0]},{array[1]}]");
                             ChangeArray(array); 1.
Changes made through arr are visible
here through array.
                             WriteLine($"After:[{array[0]},{array[1]}]");
         {double[2]}
 array
                         static void ChangeArray(double[] arr) 2.
 (0]
           10
```

7 [1]

arr[0] = 10; Inside the method, arr points to the same memory as arr[1] = 7;{double[2]}

10

7

[0] [1]