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Array Review Questions

**1. Is each of the following a valid or invalid array definition? (If a definition is invalid, explain**

**why) Try to answer first before using Visual Studio - then check your answers using Visual**

**Studio to see if you understand why something worked or didn’t**

int[] numbers = new int[10] { 0, 0, 1, 0, 0, 1, 0, 0, 1, 1 }; is a valid array

int[] matrix = new int[5] { 1, 2, 3, 4, 5, 6, 7 };

invalid. You cant define the array with more indexes than you initialized it with

double[] radii = new double[10] (3.2, 4.7};

invalid. The array is initialized with 10 and only 2 values have been defined

int[] table = new int[7] { 2, , , 27, , 45, 39 };

invalid. Values need to defined. Cannot have empty index

char[] codes = { 'A', 'X', '1', '2', 's' };

invalid. Needs to be initialized with a new char[] before the values are defined

int[] blanks;

invalid. Needs to be initialized with new int[]

int[] collection = new int[-20];

invalid. Cannot have negative array index

int[] hours = new int[3] 8, 12, 16;

invalid. Need {} around the value definition

question 2 on next page

**Given the following code what output would you expect?**

int[] values = {2, 6, 10, 14};

Console.WriteLine(values[2]); will output 10

Console.WriteLine(++values[0]); will output 3

Console.WriteLine(++values[0]); will output 4

int x = 2;

Console.WriteLine(values[++x]); will print out 14

Console.WriteLine(values[4]); will not print anything. Error: outside of array bounds