Question 57: There is a class of students. Each student has his or her grades. How can this be expressed in C#?

Answer 57: We can convert a situation like this one into an array of arrays.

```
Grades for first student
Notation for nested, or jagged, arrays
                       int[][] studentGrades = {new int[]{ 89,98},
                                                  new int[]{76,89,91}};
using static System.Console;
                                                      Grades for second student
class Program
   static void Main()
        int[][] studentGrades = {new int[]{ 89,98},
                                new int[]{76,89,91}}; //1. Makes array of arrays
       foreach (var student in studentGrades)//2. Needed to grab each array
           foreach(var grade in student) //3. Needed to access each grade
                                             inside an array
               WriteLine($"Grade={grade}");//4. Prints each grade
           WriteLine("-----");//5. Prints separator
       }
   }
}
```

You can run this code with the debugger using the steps below. To truly know what this code is doing at this point, please run it with the debugger now. It's crucial as a step towards building real comprehension.

Do these steps only once. Press this arrow repeatedly to step through the code.

```
1. Debug 2. ★ Step Into 3. | ■ 5 | ७ | → ★ ↑ ↑
```

There is more a more detailed discussion on the next page.