

EECE.2160: ECE Application Programming

Spring 2017

Lecture 6: Key Questions

January 30, 2017

1. Describe the basic elements of a flowchart.

2. Design a flowchart to solve the following:
- Prompt a user to enter four numbers on a single line, which represent the contents of a 2x2 array
 - After reading the values, your program should print the matrix represented by these values
 - For example, if the user enters “1 2 3 4”, print:
1 2
3 4
 - Assume all values have the same number of digits
 - Also, calculate the matrix discriminant and print it on a separate line
 - In the example above, discriminant = $(1 \times 4) - (2 \times 3) = 4 - 6 = -2$

3. Convert the flowchart you wrote into a C program.

4. Explain the useful features of a debugger.

Note: At this point, we'll run through the use of the Visual Studio debugger; feel free to use this space to take notes on that demonstration.