16.216: ECE Application Programming

Spring 2015

Lecture 6: Key Questions February 6, 2015

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
 - o For example, if the user enters "1 2 3 4", print:
 - 1 2
 - 3 4
 - o Assume all values have the same number of digits
 - Also, calculate the matrix discriminant and print it on a separate line
 - o In the example above, discriminant = (1x4) (2x3) = 4-6 = -2

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

4. Explain the useful features of a debugger.

<u>Note:</u> 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.