16.216: ECE Application Programming

Fall 2015

Lecture 33: Key Questions November 30, 2015

- 1. **Example:** Write each of the following functions:
- a. char *readLine(): Read a line of data from the standard input, store that data in a dynamically allocated string, and return the string (as a char *)
 Hint: Read the data one character at a time and repeatedly reallocate space in string

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b. int **make2DArray(int total, int nR): Given the total number of values and number of rows to be stored in a two-dimensional array, determine the appropriate number of columns, allocate the array, and return its starting address

Note: if nR does not divide evenly into total, round up. In other words, an array with 30 values and 4 rows should have 8 columns, even though 30 / 4 = 7.5