Polynomial Project

Part 1: Implementation using Array Structure

Create a *polynomial* class, using an array, that will:
Include a constructor for a polynomial of a given degree, and a default constructor for some unknown degree.
add / subtract two polynomials and store the answer as a new polynomial
multiply two polynomials and store the answer as a new polynomial
evaluate a polynomial for a given value of *c* and return the value.

You should write a driver program to **fully** test your program for a variety of inputs.

You should include with your program a brief *doc* file that will explain the time and space complexity of each of the methods / functions.

Part 1 of the Polynomial Project is due on Friday, March 4, 2016. You can zip your project and email it to me. (We can try using Blackboard, too, but I think we will have problems!)

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Part 2: Implementation using Linked List Structure

Basically, the same as part 1 **except** use a linked list to implement your polynomial!

In your *doc*, include a comparison of time and space complexity with your array implementation, and discuss which method is best or how you would choose between them!

Part 2 of the Polynomial Project is due on Tuesday, March 15, 2016.