

2 – Convex Polygon Area

→ ch7 git:(master) X cat q2_input.txt

```
4 0
4 7.5
7 7.5
7 3
9 0
7 0
4 0
```

→ ch7 git:(master) X ./q2

The area of 7 points is 25.500000.

→ ch7 git:(master) X cat q2_output.txt

```
4.000000 0.000000
4.000000 7.500000
7.000000 7.500000
7.000000 3.000000
9.000000 0.000000
7.000000 0.000000
4.000000 0.000000
```

[Not actual Output]: do “rm q2_input.txt” and then “vim q2_input.txt”. Input a line “1 1” and then press “yy22p”. (q2_input.txt will have 23 lines of “1 1”)

→ ch7 git:(master) X ./q2

The area of 20 points is 0.000000.

3 – Point Mass System

→ ch7 git:(master) X cat q3_input.txt

```
4
5 -4 3 2
4 3 -2 5
-4 -3 -1 2
-9 8 6 1
```

→ ch7 git:(master) X ./q3

=====

Center of mass: (1.300000 0.900000 0.000000)

Location:

```
5.000000 -4.000000 3.000000
4.000000 3.000000 -2.000000
-4.000000 -3.000000 -1.000000
```

```
-9.000000 8.000000 6.000000
Mass:
2.000000
5.000000
2.000000
1.000000
n: 4
```

5 – UPC Barcodes

```
→ ch7 git:(master) X cat q5_input.txt
079400804501
024000162860
011110856807
051000138101
→ ch7 git:(master) X ./q5
079400804501 valid
024000162860 digit 5 does not match 0
011110856807 valid
051000138101 valid
```

11 – Merge Two Arrays

```
→ ch7 git:(master) X cat q11_input.txt
2 6 12 18 23 55 57 58 59 60
1 3 5 9 11 19 27 28 31 56
→ ch7 git:(master) X ./q11
1 2 3 5 6 9 11 12 18 19 23 27 28 31 55 56 57 58 59 60

→ ch7 git:(master) X cat q11_input.txt
1 3 5 9 11 19 27 28 31 56
2 6 12 18 23 55 57 58 59 60
→ ch7 git:(master) X ./q11
1 2 3 5 6 9 11 12 18 19 23 27 28 31 55 56 57 58 59 60
```

14 – Evaluate Polynomial

```
→ ch7 git:(master) X ./q14
Enter the degree [1,8]: 6
Enter A[6]: 1.5
Enter A[5]: 3.5
Enter A[4]: -1.25
Enter A[3]: 31.3
```

Enter A[2]: 5.5
Enter A[1]: 2.1
Enter A[0]: 1.5
Enter x: 16.3
Value: 32209091.399494

ENGR120 Chapter 7 Test Results

Student Name: _____

Date: _____ Time: _____ Tester: _____

2 – Convex Polygon Area

Code compiles: ☐Y ☐N # of warnings: _____
Code ran: ☐Y ☐N Correct: ☐Y ☐N Terminated OK: ☐Y ☐N
Execution checked under valgrind, no *user* pointer errors: ☐Y ☐N
Output was free from extraneous output: ☐Y ☐N
Comments:

3 – Point Mass System

Code compiles: ☐Y ☐N # of warnings: _____
Code ran: ☐Y ☐N Correct: ☐Y ☐N Terminated OK: ☐Y ☐N
Execution checked under valgrind, no *user* pointer errors: ☐Y ☐N
Output was free from extraneous output: ☐Y ☐N
Comments:

5 – UPC Barcodes

Code compiles: ☐Y ☐N # of warnings: _____
Code ran: ☐Y ☐N Correct: ☐Y ☐N Terminated OK: ☐Y ☐N
Execution checked under valgrind, no *user* pointer errors: ☐Y ☐N
Output was free from extraneous output: ☐Y ☐N
Comments:

11 – Merge Two Arrays

Code compiles: ☐Y ☐N # of warnings: _____

Code ran: ☐Y ☐N Correct: ☐Y ☐N Terminated OK: ☐Y ☐N

Execution checked under valgrind, no *user* pointer errors: ☐Y ☐N

Output was free from extraneous output: ☐Y ☐N

Comments:

14 – Evaluate Polynomial

Code compiles: ☐Y ☐N # of warnings: _____

Code ran: ☐Y ☐N Correct: ☐Y ☐N Terminated OK: ☐Y ☐N

Execution checked under valgrind, no *user* pointer errors: ☐Y ☐N

Output was free from extraneous output: ☐Y ☐N

Comments: