

Programming Assignment 1 (Polynomials)

Test Cases

Test cases for method `evaluate`:

Case 1 (3 pts)

poly1

4 6
5 3
-11 1
5 0

evaluated at `x=0`

Case 2 (4 pts)

poly1

1 6
2 5
3 4
4 3
5 2
6 1
7 0

evaluated at `x=8`

Case 3 (3 pts)

poly1

1 3
-7 2
9 0

evaluated at `x=-1`

Test cases for method `add`

Case 1 (6 pts)

poly1	poly2
-----	-----

1 6	-1 6
2 5	-2 5
3 4	-3 4
4 3	-4 3
5 2	-5 2
6 1	-6 1
7 0	-7 0

Case 2 (7 pts)

poly1	poly2
-----	-----

4 6	24 8
5 3	15 5
-11 1	110 4
5 0	5 1

Case 3 (7 pts)

poly1	poly2
-----	-----

1 6	3 48976
2 5	2 1090
3 4	-1 6
	-2 5
	-3 4

Case 4 (2 pts)

poly1 -----	poly2 -----
zero poly/ empty file	zero poly/ empty file

Case 5 (3 pts)

poly1 -----	poly2 -----
1 6 2 5 3 4 4 3 5 2 6 1 7 0	zero poly/ empty file

Test cases for method `multiply`

Case 1 (7 pts)

poly1 -----	poly2 -----
1 6 2 5 3 4 4 3 5 2 6 1 7 0	-1 6 -2 5 -3 4 -4 3 -5 2 -6 1 -7 0

Case 2 (7 pts)

poly1 -----	poly2 -----
4 6 5 3 -11 1 5 0	24 8 15 5 110 4 5 1

Case 3 (7 pts)

poly1 -----	poly2 -----
1 6 2 5 3 4	3 48976 2 1090 -1 6 -2 5 -3 4

Case 4 (2 pts)

poly1 -----	poly2 -----
zero poly/ empty file	zero poly/ empty file

Case 5 (2 pts)

poly1 -----	poly2 -----
1 6 2 5 3 4 4 3 5 2 6 1 7 0	zero poly/ empty file
