

```

1 to accept 2 polynomials
2 to add the 2 polynomials
3 to multiply the 2 polynomials
4 to modify either of two polynomials
5 to display both polynomials
6 to accept two polynomials from input file:
7 to exit the program
1

```

Enter polynomial p1 :

Enter number of terms:2

Enter coefficient and exponent (c,e):1,1

Enter coefficient and exponent (c,e):1,3

Enter polynomial p2 :

Enter number of terms:2

Enter coefficient and exponent (c,e):1,0

Enter coefficient and exponent (c,e):1,2

Enter

```

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5

```

| 1X^3 + 1X^1 + + 0 = 0 |

| 1X^2 + 1X^0 + + 0 = 0 |

Command Prompt - polynom.exe

-----Polynomial handler program-----

Enter

```

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```

1

Enter polynomial p1 :

Enter number of terms:2

Enter coefficient and exponent (c,e):1,1

Enter coefficient and exponent (c,e):1,3

Enter polynomial p2 :

Enter number of terms:2

Enter coefficient and exponent (c,e):2,0

Enter coefficient and exponent (c,e):2,2

Enter

```

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```

2

| 1X^3 + 2X^2 + 1X^1 + 2X^0 + + 0 = 0 |

Enter

```

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7 to exit the program

```

■

```

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6 to accept two polynomials from input file:
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6
Input from input1.txt:
| 5X^4 + 12X^3 + 4X^2 + 2X^1 + + 0 = 0 |
Input from input2.txt:
| 1X^4 + 3X^3 + 2X^2 + + 0 = 0 |

```

```

Enter
1 to accept 2 polynomials
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6 to accept two polynomials from input file:
7 to exit the program
4
Which polynomial to you wish to modify(1-p1,2-p2):1
Enter
    1 to insert a term
    2 to delete a term
:1
Enter coefficient and exponent:1,5
Enter
1 to accept 2 polynomials
2 to add the 2 polynomials
3 to multiply the 2 polynomials
4 to modify either of two polynomials
5 to display both polynomials
6 to accept two polynomials from input file:
7 to exit the program
5
| 1X^5 + 1X^3 + 1X^1 + + 0 = 0 |
| 2X^2 + 2X^0 + + 0 = 0 |

```

```

Input from input1.txt:
| 5X^4 + 12X^3 + 4X^2 + 2X^1 + + 0 = 0 |
Input from input2.txt:
| 1X^4 + 3X^3 + 2X^2 + + 0 = 0 |
Enter
1 to accept 2 polynomials
2 to add the 2 polynomials
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6 to accept two polynomials from input file:
7 to exit the program
2
| 6X^4 + 15X^3 + 6X^2 + 2X^1 + + 0 = 0 |
Enter

```

```

Enter
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5 to display both polynomials
6 to accept two polynomials from input file:
7 to exit the program
5
| 1X^3 + 1X^1 + + 0 = 0 |
| 1X^2 + 1X^0 + + 0 = 0 |
Enter
1 to accept 2 polynomials
2 to add the 2 polynomials
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3
| 1X^5 + 2X^3 + 1X^1 + + 0 = 0 |

```

Sets Output

```
Command Prompt - sets.exe
C:\Users\Vincent\Code\c-cpp\SE\Labs\DS\LabS\sets>sets.exe
-----Set handler program-----
Enter
 1 to accept 2 sets
 2 to perform set union
 3 to perform set intersection
 4 to perform set difference
 5 to display both sets
 6 to exit
1
Enter set A :
Enter number of items:3
Enter value:1
Enter value:2
Enter value:3
Enter set p2 :
Enter number of items:3
Enter value:3
Enter value:4
Enter value:5
Enter
 1 to accept 2 sets
 2 to perform set union
 3 to perform set intersection
 4 to perform set difference
 5 to display both sets
 6 to exit
2
{ 1 , 2 , 3 , 4 , 5 , }
Enter
 1 to accept 2 sets
 2 to perform set union
 3 to perform set intersection
 4 to perform set difference
 5 to display both sets
 6 to exit
■
```

```
Enter
 1 to accept 2 sets
 2 to perform set union
 3 to perform set intersection
 4 to perform set difference
 5 to display both sets
 6 to exit
5
Set 1: { 1 , 2 , 3 , }
Set 2: { 3 , 4 , 5 , }
```

```
Enter
 1 to accept 2 sets
 2 to perform set union
 3 to perform set intersection
 4 to perform set difference
 5 to display both sets
 6 to exit
3
{ 3 , }
Enter
 1 to accept 2 sets
 2 to perform set union
 3 to perform set intersection
 4 to perform set difference
 5 to display both sets
 6 to exit
4
Enter 1 for A-B, 2 for B-A:1
{ 1 , 2 , }
Enter
 1 to accept 2 sets
 2 to perform set union
 3 to perform set intersection
 4 to perform set difference
 5 to display both sets
 6 to exit
4
Enter 1 for A-B, 2 for B-A:2
{ 4 , 5 , }
Enter
 1 to accept 2 sets
 2 to perform set union
 3 to perform set intersection
 4 to perform set difference
 5 to display both sets
 6 to exit
```