

Hw3-1

input.txt :

2

preorder-inorder

7

1 2 3 4 5 6 7

3 2 4 1 6 5 7

postorder-inorder

10

5 6 4 7 3 8 2 10 9 1

5 4 6 3 7 2 8 1 9 10

```
h54084078@LAPTOP-IOHPAELR:/mnt/c/Users/user$ cd Desktop/資料結構/hw3/_3-1
h54084078@LAPTOP-IOHPAELR:/mnt/c/Users/user/Desktop/資料結構/hw3/_3-1$ g++ -o hw3-1 hw3-1.cpp
h54084078@LAPTOP-IOHPAELR:/mnt/c/Users/user/Desktop/資料結構/hw3/_3-1$ ./hw3-1
enter filename : input.txt
enter filename :
```

output.txt :

```
3 4 2 6 7 5 1
1 2 3 4 5 6 7 8 9 10
~
~
```

Input_01.txt:

3

preorder-inorder

5

5 2 4 3 1

5 4 3 2 1

postorder-inorder

5

4 3 5 1 2

4 2 1 5 3

postorder-inorder

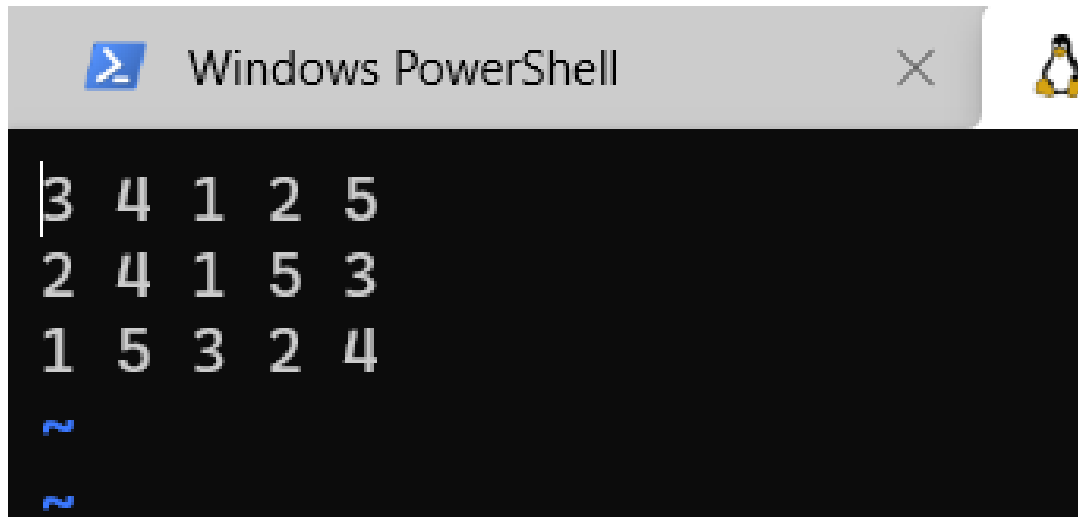
5

5 2 4 3 1

5 1 2 3 4

```
enter filename : ^C
h54084078@LAPTOP-IOHPAELR:/mnt/c/Users/user/Desktop/資料結構/hw3/_3-1$ ./hw3-1
enter filename : input_01.txt
enter filename : |
```

Output_01.txt:



Input_02.txt:

3
preorder-inorder
10
6 3 2 9 5 8 7 1 4 10
9 2 5 8 3 7 6 4 1 10
preorder-inorder
10
10 2 4 9 7 3 6 1 5 8
4 2 7 9 3 10 1 5 6 8
postorder-inorder
10
2 9 6 4 5 8 10 7 1 3
7 9 2 4 6 10 8 5 3 1

```
h54084078@LAPTOP-IOHPAELR:/mnt/c/Users/user/Desktop/資料結構/hw3/_3-1$ vim output_01.txt
h54084078@LAPTOP-IOHPAELR:/mnt/c/Users/user/Desktop/資料結構/hw3/_3-1$ ./hw3-1
enter filename : input_02.txt
enter filename : |
```

Output_02.txt :

```
Windows PowerShell

9 8 5 2 7 3 4 10 1 6
4 7 3 9 2 5 1 8 6 10
3 7 10 4 9 2 6 8 5 1
2
2
```

Hw3-2

Input.txt:

```
2
60
010010
101010
010100
001011
110100
000100
70
0010100
0011000
1100010
0100111
1001001
0011001
0001110
```

```
h54084078@LAPTOP-IOHPAELR:/mnt/c/Users/user/Desktop/資料結構/hw3/_3-2$ g++ -o hw3-2 hw3-2.cpp
h54084078@LAPTOP-IOHPAELR:/mnt/c/Users/user/Desktop/資料結構/hw3/_3-2$ ./hw3-2
enter filename : input.txt
enter filename : |
```

Output.txt :

```
Windows PowerShell h54084078@LAPTOP-IOHPAIF
0 1 2 3 4 5
0 2 1 3 4 6 5
~
```

Input_01.txt :

```
5
5 3
0 0 1 0 0
0 0 1 1 0
1 1 0 0 1
0 1 0 0 1
0 0 1 1 0
6 1
0 1 1 0 0 0
1 0 0 0 1 0
1 0 0 0 1 0
0 0 0 0 1 1
0 1 1 1 0 0
0 0 0 1 0 0
7 2
0 0 1 0 0 1 0
0 0 0 0 0 1 0
1 0 0 0 1 0 1
0 0 0 0 0 1 0
0 0 1 0 0 0 0
1 1 0 1 0 0 0
0 0 1 0 0 0 0
8 5
0 1 0 0 0 1 0 0
1 0 0 0 0 0 1 0
0 0 0 1 0 0 1 1
0 0 1 0 0 0 0 0
0 0 0 0 0 1 1 0
1 0 0 0 1 0 0 0
0 1 1 0 1 0 0 0
0 0 1 0 0 0 0 0
```

9 4

000011100

000001000

000000111

000010000

100100000

110000000

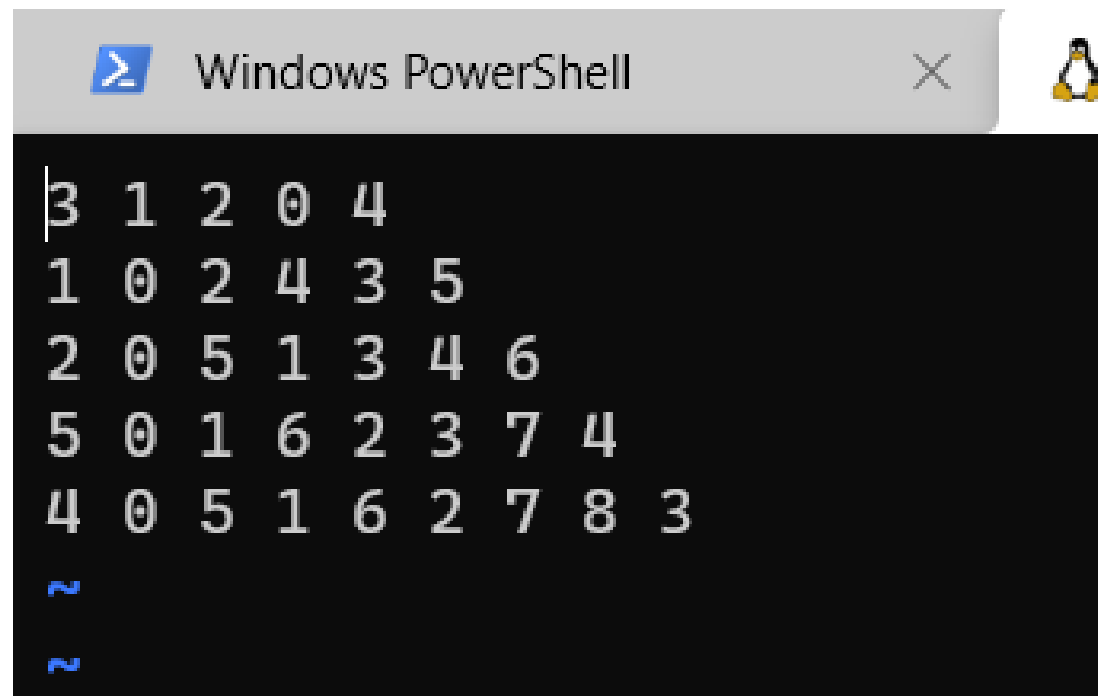
101000001

001000000

001000100

```
h54084078@LAPTOP-IOHPAELR:/mnt/c/Users/user/Desktop/資料結構/hw3/_3-2$ ./hw3-2
enter filename : input_01.txt
enter filename : |
```

Output_01.txt :



A screenshot of a Windows PowerShell window titled "Windows PowerShell". The window has a dark background and displays a 5x5 grid of numbers. The numbers are arranged as follows:

3	1	2	0	4				
1	0	2	4	3	5			
2	0	5	1	3	4	6		
5	0	1	6	2	3	7	4	
4	0	5	1	6	2	7	8	3

Below the grid, there are two blue tilde (~) characters on separate lines.

Hw3-3

Input.txt :

2

60

010010

101010

010100

```
001011
110100
000100
70
0010100
0011000
1100010
0100111
1001001
0011001
0001110
```

```
h54084078@LAPTOP-IOHPAELR:/mnt/c/Users/user/Desktop/資料結構/hw3/_3-3$ g++ -o hw3-3 hw3-3.cpp
h54084078@LAPTOP-IOHPAELR:/mnt/c/Users/user/Desktop/資料結構/hw3/_3-3$ ./hw3-3
enter filename : input.txt
enter filename : |
```

Output.txt :



```
0 1 4 2 3 5
0 2 4 1 5 3 6
~
```

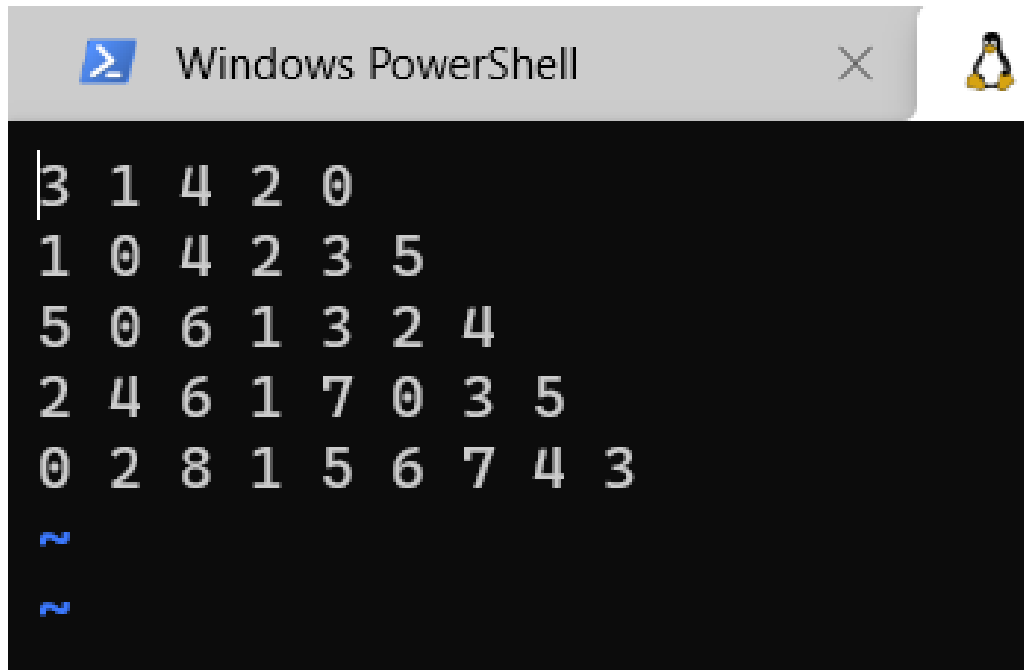
Input_01.txt :

```
5
53
00100
00110
11001
01001
00110
61
010000
100010
000011
000011
011100
```

001100
75
0101010
1001100
0001101
1110000
0110000
1000001
0010010
82
00010010
00011111
00001010
11000100
01100001
01010000
11100000
01001000
90
001000001
001001010
110001110
000010100
000101100
011010101
001111001
011000001
100001110

```
h54084078@LAPTOP-IOHPAELR:/mnt/c/Users/user/Desktop/資料結構/hw3/_3-3$ g++ -o hw3-3 hw3-3.cpp
h54084078@LAPTOP-IOHPAELR:/mnt/c/Users/user/Desktop/資料結構/hw3/_3-3$ ./hw3-3
enter filename : input.txt
enter filename : input_01.txt
enter filename : |
```

Output_01.txt :

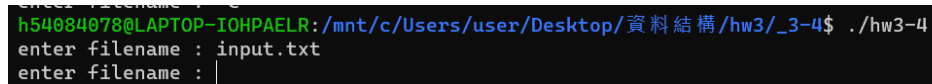


```
3 1 4 2 0
1 0 4 2 3 5
5 0 6 1 3 2 4
2 4 6 1 7 0 3 5
0 2 8 1 5 6 7 4 3
~
~
```

Hw3-4

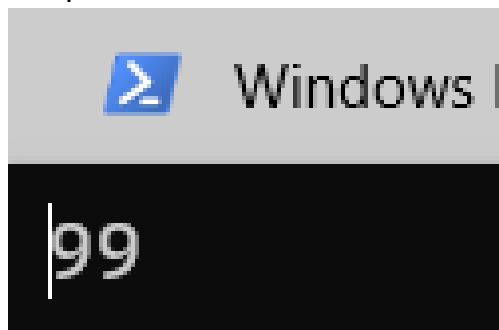
Input.txt :

```
7 9
0 1 28
0 5 10
1 2 16
5 4 25
6 4 24
1 6 14
3 4 22
2 3 12
3 6 18
```



```
h54084078@LAPTOP-IOHPAELR:/mnt/c/Users/user/Desktop/資料結構/hw3/_3-4$ ./hw3-4
enter filename : input.txt
enter filename : |
```

Output.txt :



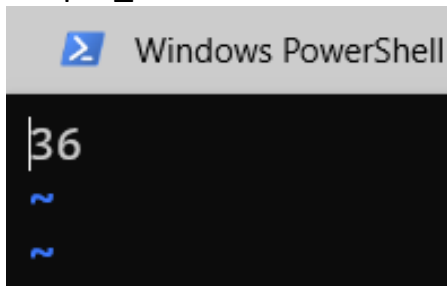
```
99
```


Input_01.txt :

10 14
0 1 6
0 2 10
1 2 2
2 3 4
2 5 9
3 4 1
4 6 10
4 7 3
4 8 10
5 6 6
6 7 4
6 8 9
7 8 10
7 9 1

```
enter filename :  
h54084078@LAPTOP-IOHPAELR:/mnt/c/Users/user/Desktop/資料結構/hw3/_3-4$ ./hw3-4  
enter filename : input.txt  
enter filename : input_01.txt  
enter filename : |
```

Output_01.txt :



```
Windows PowerShell  
36  
~  
~
```

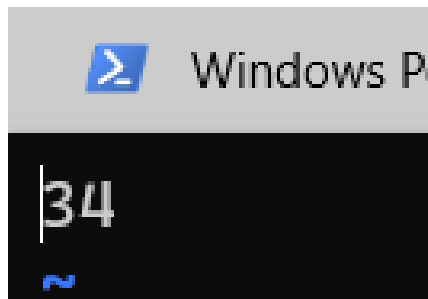
Input_02.txt :

10 15
0 3 2
1 2 3
1 3 9
1 4 1
2 3 4
2 5 8
2 8 9
3 4 8

3 6 5
3 8 5
4 5 6
5 6 7
6 7 5
7 9 3
8 9 7

```
h54084078@LAPTOP-IOHPAELR:/mnt/c/Users/user/Desktop/資料結構/hw3/_3-4$ ./hw3-4
enter filename : input.txt
enter filename : input_01.txt
enter filename : input_02.txt
enter filename : |
```

Output_02.txt :



Hw3-5

Input.txt :

10
1 2 110
1 3 150
1 4 100
2 5 50
2 6 80
3 7 120
3 8 150
4 9 200
4 10 400
1

```
h54084078@LAPTOP-IOHPAELR:/mnt/c/Users/user$ cd Desktop/資料結構/hw3/_3-5
h54084078@LAPTOP-IOHPAELR:/mnt/c/Users/user/Desktop/資料結構/hw3/_3-5$ g++ -o hw3-5 hw3-5.cpp
h54084078@LAPTOP-IOHPAELR:/mnt/c/Users/user/Desktop/資料結構/hw3/_3-5$ ./hw3-5
enter filename : input.txt
enter filename :
```

Output.txt :

```
Windows PowerShell

1 0
2 110
3 150
4 100
5 160
6 190
7 270
8 300
9 300
10 500
~
```

Input_01.txt :

```
10
1 2 10
1 3 9
1 4 5
1 5 9
1 6 3
1 7 9
1 8 4
1 9 2
9 10 2
8
```

```
h54084078@LAPTOP-IOHPAELR:/mnt/c/Users/user$ cd Desktop/資料結構/hw3/_3-5
h54084078@LAPTOP-IOHPAELR:/mnt/c/Users/user/Desktop/資料結構/hw3/_3-5$ g++ -o hw3-5 hw3-5.cpp
h54084078@LAPTOP-IOHPAELR:/mnt/c/Users/user/Desktop/資料結構/hw3/_3-5$ ./hw3-5
enter filename : input.txt
enter filename : input_01.txt
enter filename :
```

Output_01.txt :

```
1 4
2 14
3 13
4 9
5 13
6 7
7 13
8 0
9 6
10 8
~
```

Input_02.txt :

```
20
1 2 16
1 3 16
1 4 10
1 5 11
1 6 13
1 7 15
1 8 3
1 9 7
1 10 5
1 11 7
1 12 2
1 13 18
1 14 16
1 15 8
1 16 1
16 17 16
16 18 14
16 19 18
16 20 15
15
```

```
h54084078@LAPTOP-IOHPAELR:/mnt/c/Users/user$ cd Desktop/資料結構/hw3/_3-5
h54084078@LAPTOP-IOHPAELR:/mnt/c/Users/user/Desktop/資料結構/hw3/_3-5$ g++ -o hw3-5 hw3-5.cpp
h54084078@LAPTOP-IOHPAELR:/mnt/c/Users/user/Desktop/資料結構/hw3/_3-5$ ./hw3-5
enter filename : input.txt
enter filename : input_01.txt
enter filename : input_02.txt
enter filename :
```

Output_02.txt :

```
1 8
2 24
3 24
4 18
5 19
6 21
7 23
8 11
9 15
10 13
11 15
12 10
13 26
14 24
15 0
16 9
17 25
18 23
19 27
20 24
~
```

可以連續輸入 input.txt，輸出結果會寫到對應檔名的 output.txt

Ex:input.txt→output.txt、input_01.txt→output_01.txt, etc.