1101 組合語言
上機考（一）

2021/10/27

P1 - Print Start Tree

Input:

Iteratively input an unsigned number N < 101, if N == 0, stop the program.

Output:

For each number N > 0, print a star tree.

Sample Input/Output

4 2 0	``` * // 3 space before * *** // 2 space before * ***** // 1 space before ******** ****```

評分與扣分標準

100 分:

1. 扣 20 分 without using assembly main procedure.

2. 扣 20 分 without using LOOP instruction.

3. 扣 20 分 without using ReadXXX procedure (in irvine32.lib) for input.

4. 扣 20 分 without using WriteString procedure (in irvine32.lib) for output.

5. 扣 20 分 without writing a procedure to print the star tree.

6. 扣10分 without using register to pass a parameter to the procedure.

P2 - Print Pascal Triangle

Input:

Iteratively input an unsigned number N < 101, if N == 0, stop the program.

Output:

For each number N > 0, print a pascal triangle.

Hint: use an array to save each row of integers in the pascal triangle.

6
2
0
	``
	     1 // 5 space before 1
	    1 1 // 4 space before 1
	   1 2 1 // …
	  1 3 3 1
	 1 4 6 4 1
	1 5 10 10 5 1
	 1
	1 1
	``

評分與扣分標準

100 分:

1. 扣 20 分 without using assembly main procedure.

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3. 扣 20 分 without using ReadXXX procedure (in irvine32.lib) for input.

4. 扣 20 分 without using WriteString procedure (in irvine32.lib) for output.

5. 扣 20 分 without writing a procedure to print Pascal Triangle.

6. 扣 10分 without using registers to pass parameters.

60 分 、80分、100分

- ```
  *
  **
  ***
  ****
  *****
  ```
  60 分
- ```
      *
     ***
    *****
   *******
  *********
  ```
  80 分
- ```
      1         // 4 space before 1
     1 1         //  3 space before 1
    1 2 1        // ...
   1 3 3 1
  1 4 6 4 1
  ```
  100 分