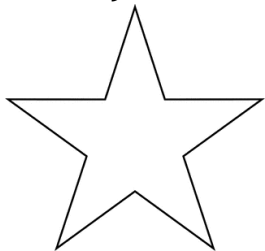# C 程式設計實習 雙周測驗

2023.09.21

1. Please print the following strings (with line breaks between each string). **10%**

    - I'm super shy, super shy
    - But wait a minute while I make you mine make you mine~
    - Y(^_^)Y

2. Please use scanf() to accept a date input and convert the British date format to Taiwanese format. If the date and month are single digits, please remember to add 0. (the format must be consistent). **10%**

    ```
    Please enter date (dd/mm/yyyy): 21/9/2023
    The output date is: 2023/09/21
    ```

3. Please use printf() to draw a star as shown below, the size is not specified. **10%**

4. First, declare a float variable and use scanf() to let the user input it, then print the following strings (with line breaks between each string, and the format must be consistent): **20%**

    Input: 123.456   95.27

    output:

    ```
        123.5            95.3
    0000123.46       0000095.27
    +123.4560         +95.2700
    123.456          95.270
    ```

5. Please use scanf() to accept a positive integer
    N, representing the number of seconds. Output how
    many days (day), hours (hr), minutes (min), and
    seconds (sec) N seconds are equal to (the format
    must be consistent). **20%**

    ```
    Enter the number of seconds (N) : 98765
    98765 seconds is equal to:  1 days, 3 hours, 26 minutes, 5 seconds.
    ```

6. Please use scanf() to accept a positive integer
    N, representing the side length of a square.
    Calculate the difference between the areas of the
    circumscribed circle and the inscribed circle of
    this square and provide **the result with two
    decimal places, without rounding.** Assume the
    value of pi is 3.14, and the square root of 2 is
    1.414 (the format must be consistent). **30%**

    ```
    Enter the side length of the square (N) : 5
    The difference between the areas is : 19.61
    ```

    (Hint:)