Question 1:

- 1. The program is saved in Q1.py
- 2. It allows the user to insert data to a singly linked list and count number of data by using a recursive method.
- 3. Execute as followings:

```
23 a.insert('CAN')
24 a.insert('SHA')
25 a.insert('SZX')

PROBLEMS OUTPUT DEBUG CON

Microsoft Windows [版本 10.
(c) Microsoft Corporation。

C:\Users\qweer>"C:/Program
5
```

Question 2:

- 1. This program is saved in Q2.py
- 2. It allows user to sort a singly linked list by quick sort
- 3. Execute as followings:

```
C:\Users\qweer>"C:/Program Files/Python39/python.exe"
['1', '21', '23', '38', '90', '223', '789', '4532']
```

Question 3:

- 1. This program is saved in Q3.py
- 2. It allows the user to show the solution of tower of Hanoi with n disks.
- 3. Execute as followings: