

EE3031 week4(3/19)

Exercise_example_r09941007

Location:(Github, formal ans)

<https://reurl.cc/R6YQj6>

^ Extra exercise will be uploaded to the repo every week.

My_Example_code:(upload after class)

<https://reurl.cc/OXYe1A>

Note:

Code will be uploaded after each class,

It's **just** my method, you **don't** need to be exactly the same, just code a project with **similar function**.

Show me your results of each exercise.

Hope you leave with accomplished **3** extra exercises.

期中考 紙本講義 影印意願調查

<https://forms.gle/WZSR89Vhbmoy6s1Y9>

想一起印的同學再填就好

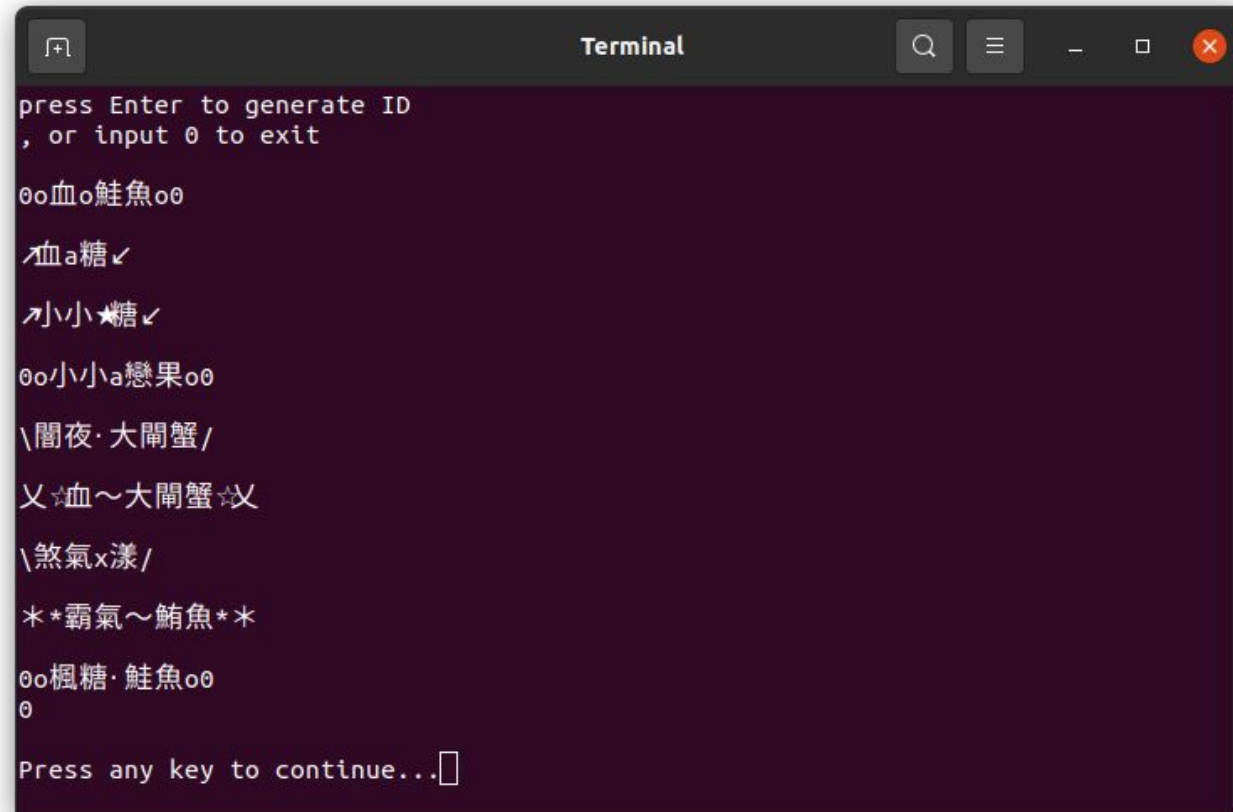
extra_exercise_easy

```
Terminal
Enter a range: 5
1
121
12321
1234321
123454321
Press any key to continue...[]
```

```
Terminal
Enter a range: 9
1
121
12321
1234321
123454321
12345654321
1234567654321
123456787654321
12345678987654321
Press any key to continue...[]
```

Hint: split a problem into sub-problems

extra_exercise_medium

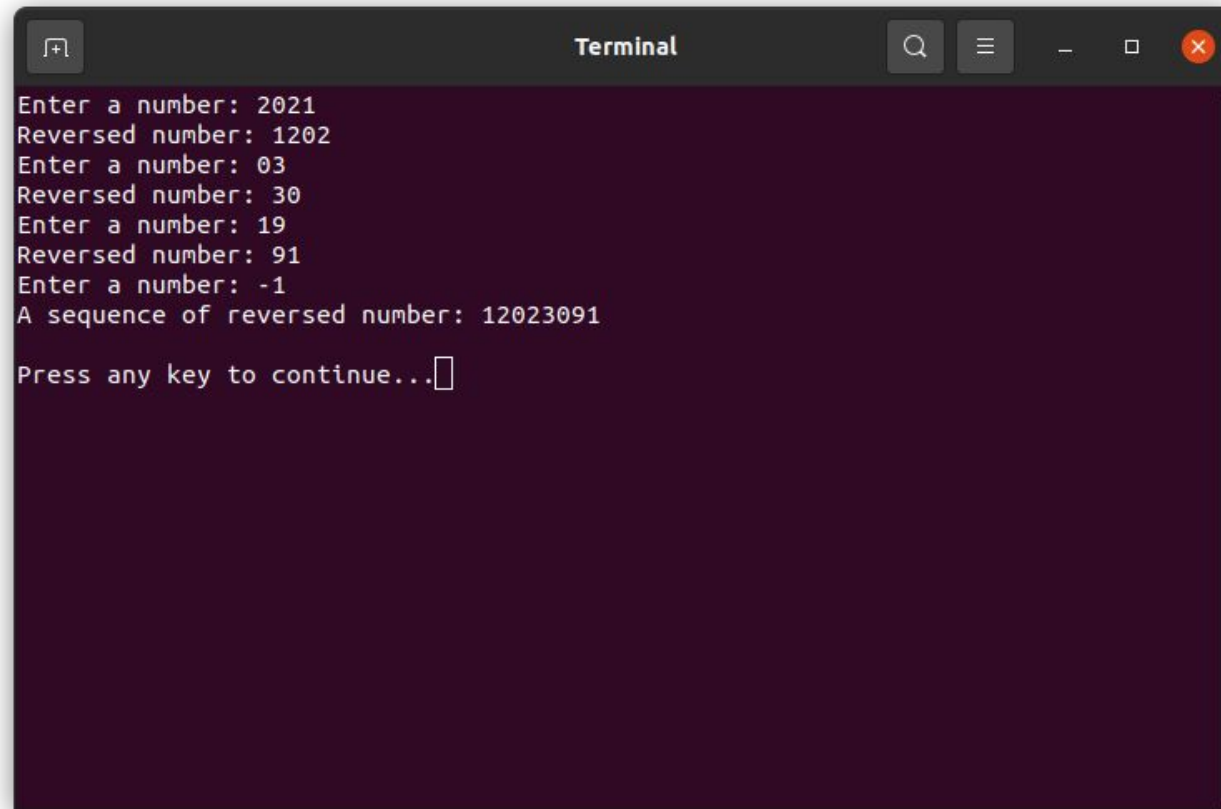


```
Terminal
press Enter to generate ID
, or input 0 to exit

0o血o鮭魚o0
血a糖✓
小小★糖✓
0o小小a戀果o0
\闇夜·大閘蟹/
又★血～大閘蟹★
\煞氣x漾/
**霸氣～鮭魚**
0o楓糖·鮭魚o0
0
Press any key to continue...□
```

Syntax Hint: **String.Split() Method**

extra_exercise_hard

A terminal window titled "Terminal" with a dark purple background and white text. It shows the execution of a C# program. The user enters several numbers, and the program outputs their reversed versions. Finally, the user enters -1, and the program outputs a sequence of all reversed numbers. The terminal window has standard macOS window controls (red, yellow, green buttons) and a search icon in the title bar.

```
Enter a number: 2021
Reversed number: 1202
Enter a number: 03
Reversed number: 30
Enter a number: 19
Reversed number: 91
Enter a number: -1
A sequence of reversed number: 12023091

Press any key to continue...□
```

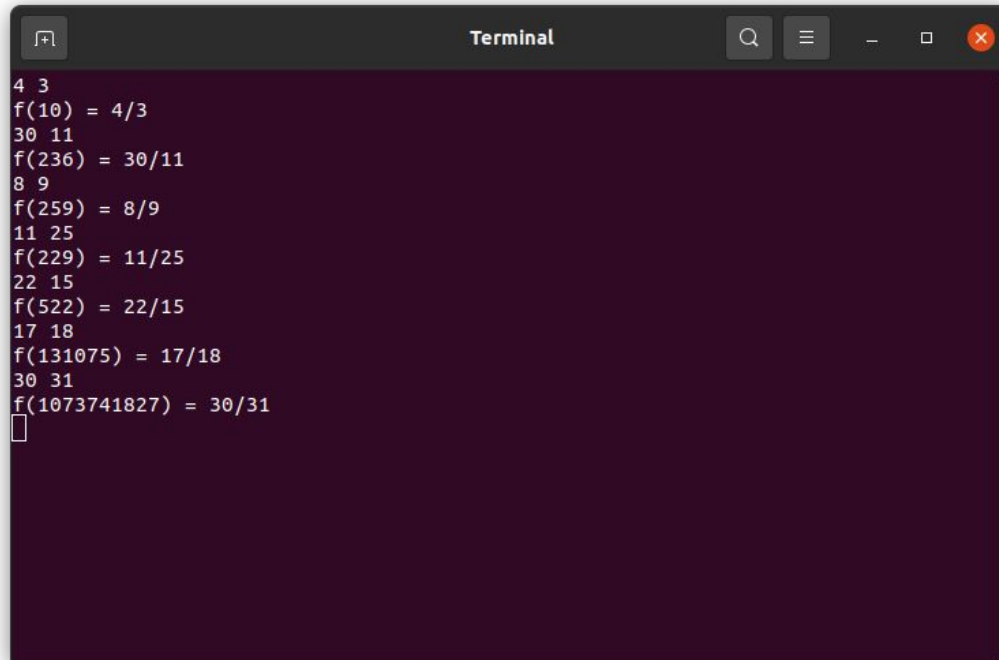
There isn't `string.reverse()` function in C#

Pair programming

(課程規劃測試、非必要、自由參加、
NTUCool/extra練習比較重要)

- 僅限兩人一組，繳交一份
- 於繳交code中以comment註明兩人的學號
- 我的加分項目、額外的額外的練習
(印象分數?但老師只給助教1.5分很少，所以對題目有興趣的人再練習就好)
- 可以回家寫、可以隔很久才繳交、可以上網查做法、也可以不寫
- 希望能促進同學討論 / 找到期末報告的組員
- 不一定每週都有
- 程式碼請寄到: r09941007@g.ntu.edu.tw (測資過了再寄)
- 題目皆來自online-judge，測資由我給，只要通過我給的測資就OK。

b537: 分數運算-1 ([Link](#))



```
Terminal
4 3
f(10) = 4/3
30 11
f(236) = 30/11
8 9
f(259) = 8/9
11 25
f(229) = 11/25
22 15
f(522) = 22/15
17 18
f(131075) = 17/18
30 31
f(1073741827) = 30/31
█
```

This problem can solve without recursion.

After learned array(different data type), loop, string, then you can solve it.

Hint: $f(\text{even})$ must ?, $f(\text{odd})$ must ?