

# 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/BwLu2GHp9vR7FyLR7>

想一起印的同學再填就好

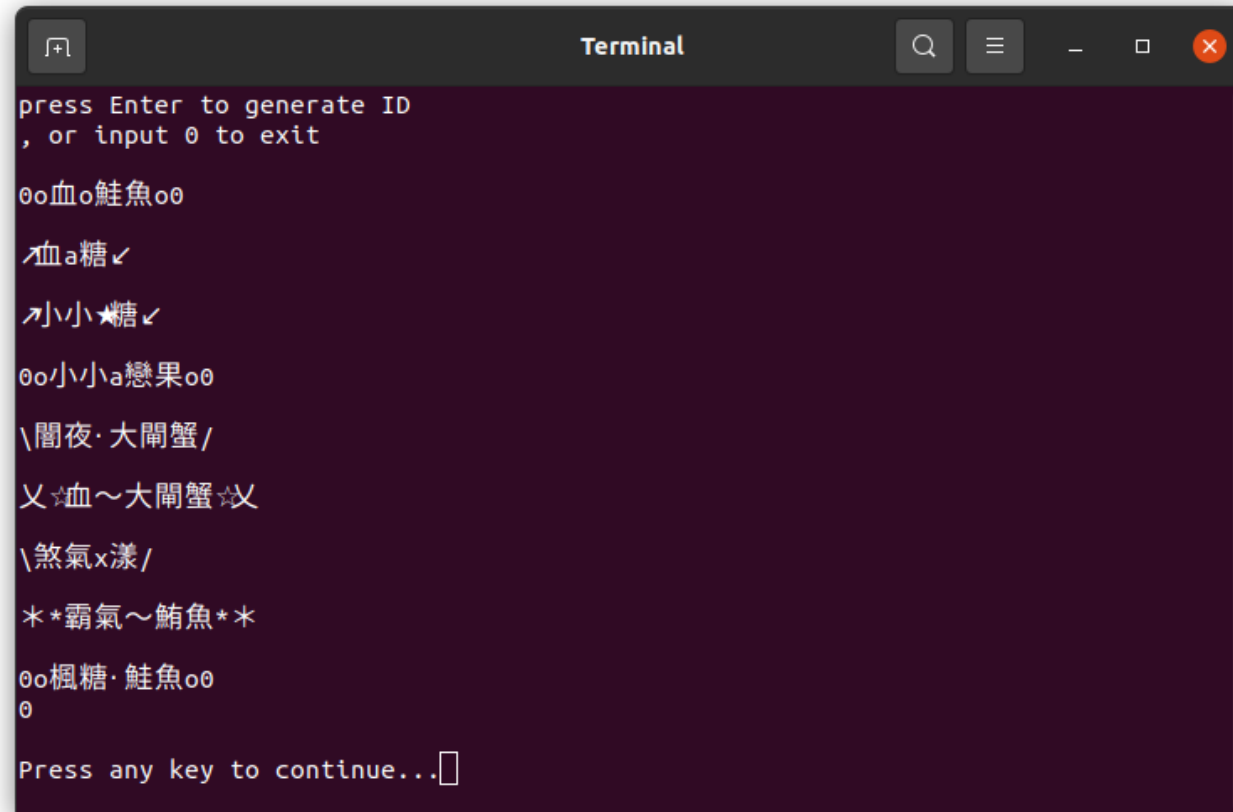
# extra\_exercise\_easy

```
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

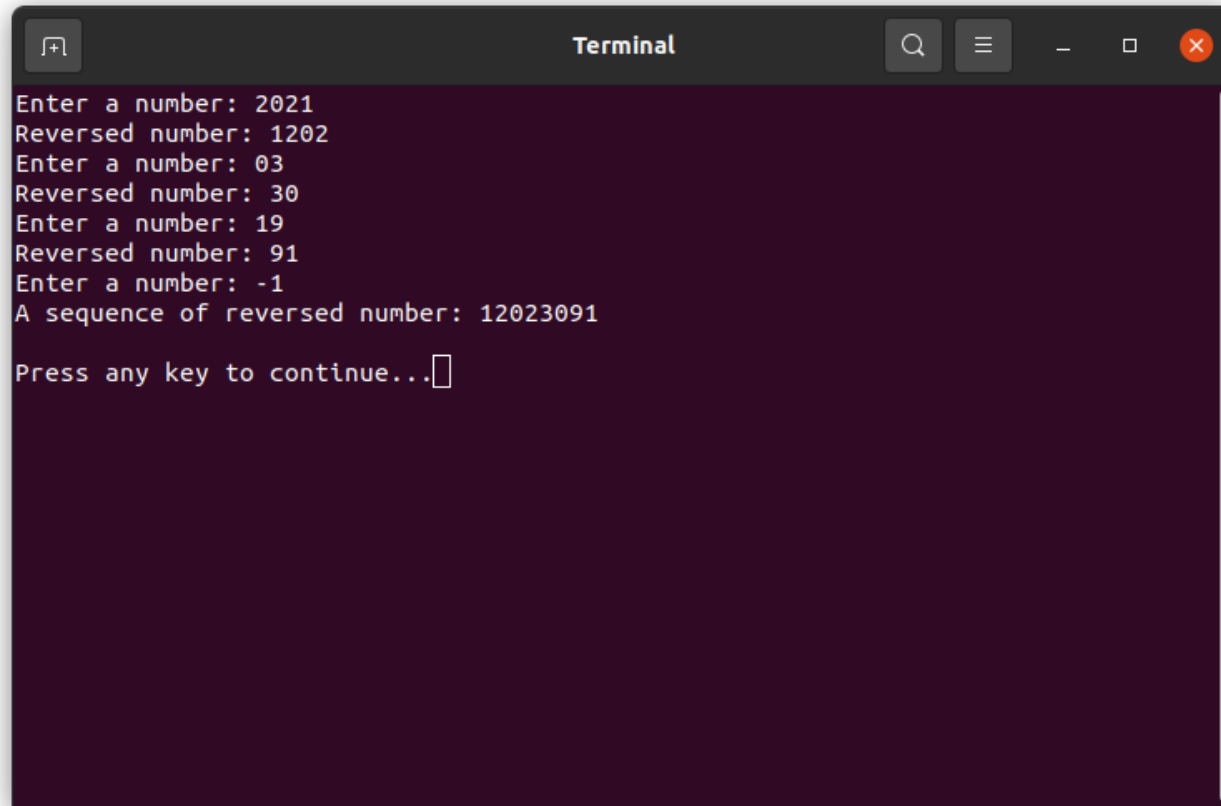


```
Terminal
press Enter to generate ID
, or input 0 to exit

0o血o鮭魚o0
血a糖✓
小小★糖✓
0o小小a戀果o0
\闇夜·大閘蟹/
乂★血～大閘蟹★乂
\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 background and light text. It shows the execution of a C# program. The program prompts the user to enter a number, reverses it, and prints the reversed number. This process is repeated for three numbers: 2021, 03, and 19. Finally, it prints a sequence of all reversed numbers: 12023091. The prompt "Press any key to continue..." is shown at the bottom with a cursor.

```
Terminal
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...█
```

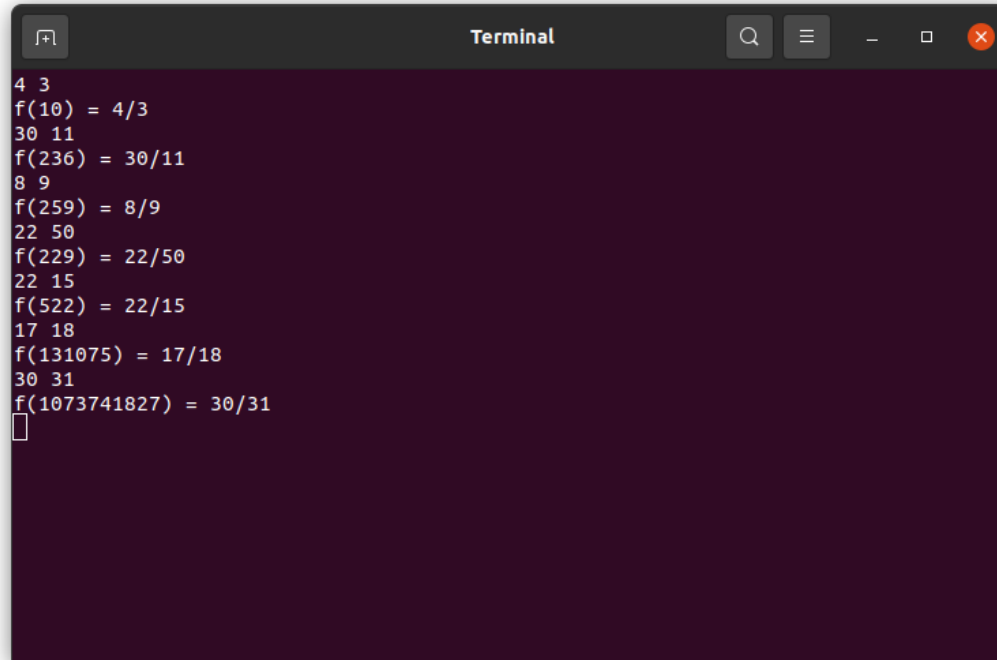
There isn't `string.reverse()` function in C#

# 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](mailto: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
22 50
f(229) = 22/50
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 ?