

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

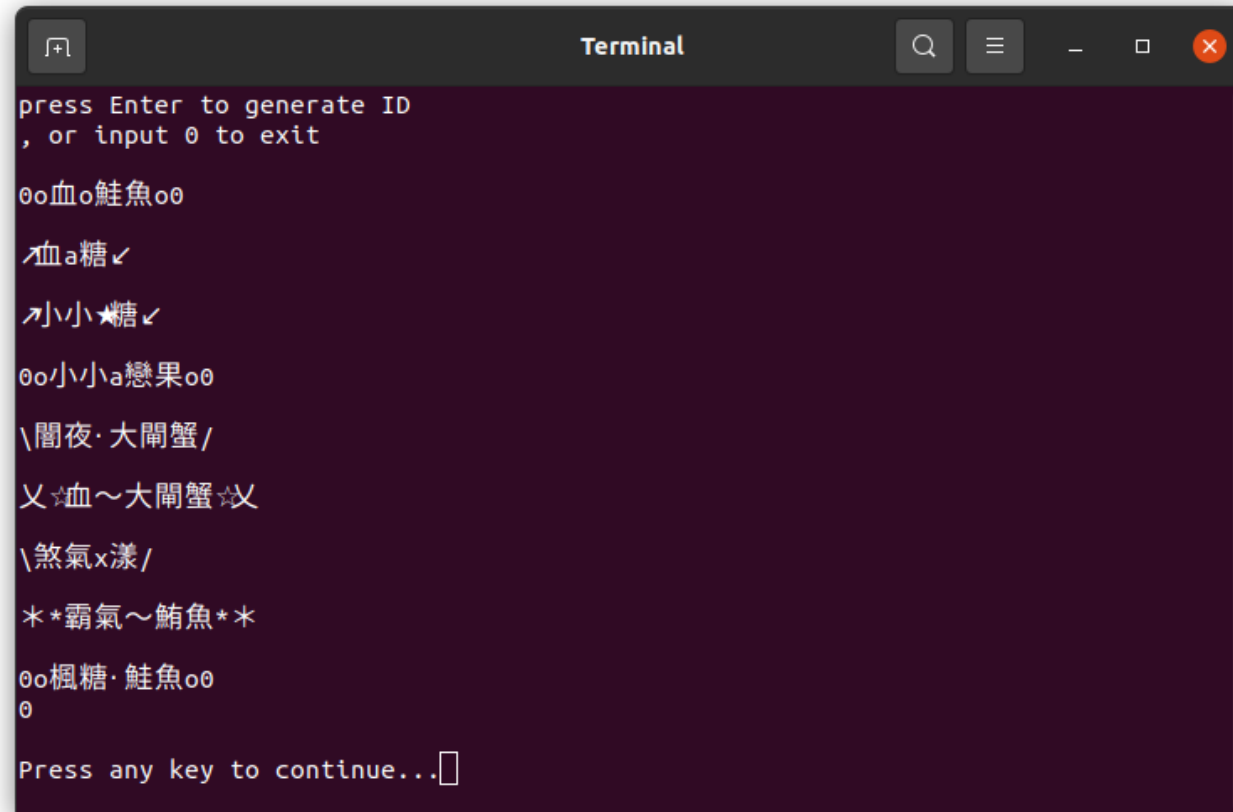
extra_exercise_easy

```
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

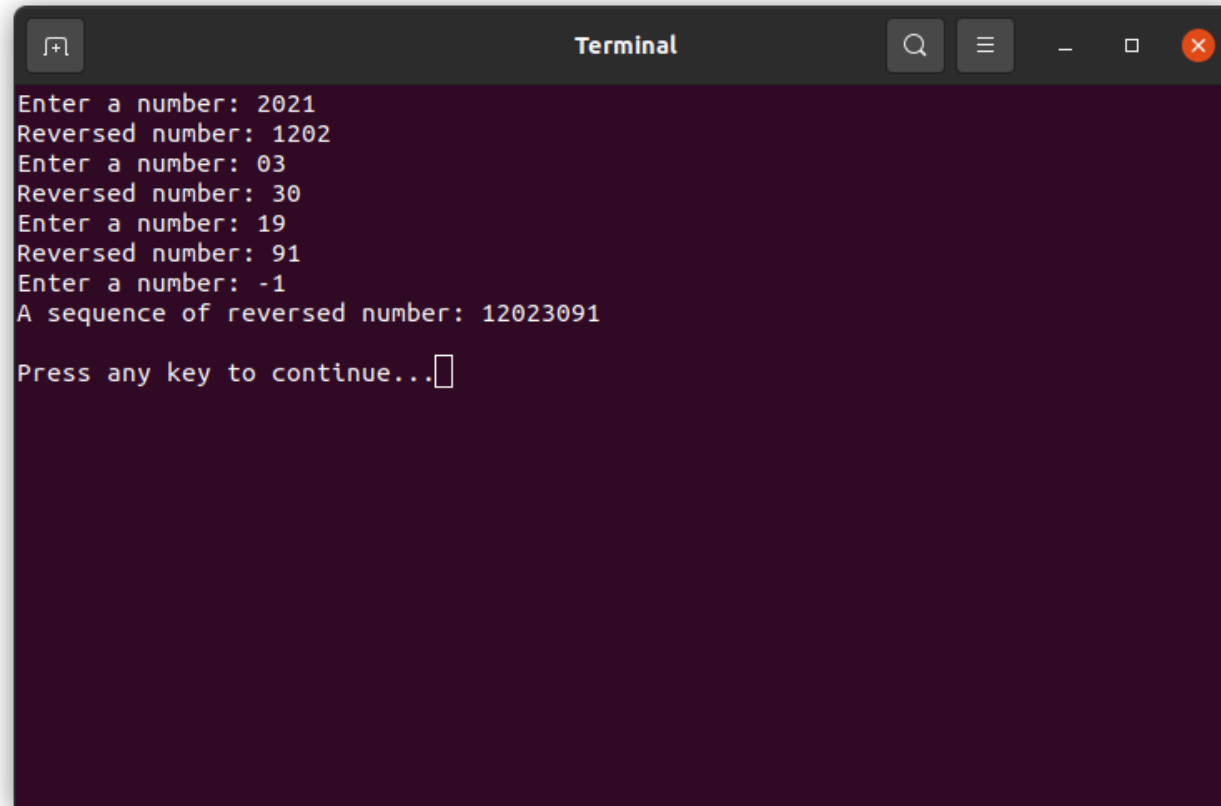


```
Terminal
press Enter to generate ID
, or input 0 to exit

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...█
```

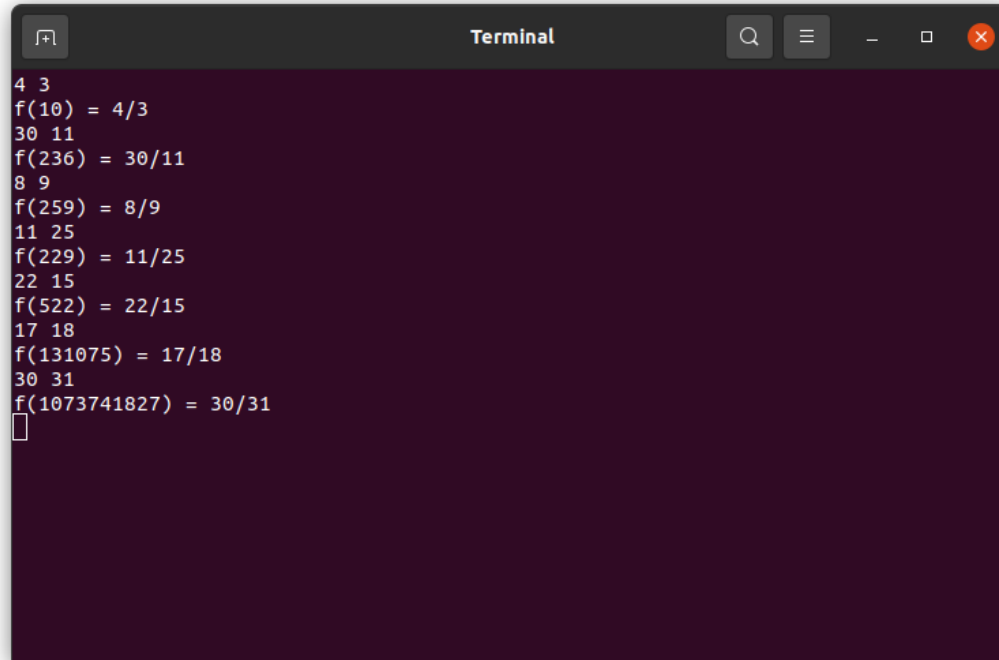
There isn't `string.reverse()` function in C#

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 (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](#))

A terminal window with a dark purple background and white text. The title bar says "Terminal". The output shows the function f(n) for various inputs, where the input is split into two parts (numerator and denominator) separated by a space. The results are fractions.

```
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 ?