

Homework #11

(Due date: 07 December 2023)

Objective :

Learn to how use **File I/O**, then combine with **string** and **loops** to perform some operations.

11.1

Write a program that the user read each line of letters from the 'input.txt', sorts the letters in each line and swap the case of each character , and then output the result to '11_1_result.txt'.

Hint:

Max line length: 256

Max lines: 1000

input:

檔案	編輯	檢視
<pre> vjoeiboiwbwioert JVWEONBONBEOIW VEIONVIOREBV weobneowibnioerwbiorbnoiew jnveoinvboievnoiernvnoerniorenavnnewionbvoweirnbvoern VHIOQEBVRIEWQBUEIOWQBRIEOBIOEBNIRIOEBN gjwoejwoi</pre>		

Output:

檔案	編輯	檢視
<pre>BBEIIIIJOOORTVWW bbeijnnoovvw beeinoorvvv BBBEEEEIIINNNOOOORRWWW ABBEEEEEEEEIIIIJJNNNNNNNNNNNOOOOOORRRRRVVVVVVWW bbbbbbeeeehiiiiinnnooooqqrrruvvww EGIJJOOWW</pre>		

11.2

There is a robot located at the position (0,0), and a string "UDLR" is given to represent a series of actions of the robot. "U" means UP, which means the robot goes up, and "D" means DOWN, which means the robot goes down. "L" means LEFT, which means the robot goes left, and "R" means RIGHT, which means the robot goes right. The above string means that the robot goes up, then down, and then left, back, and right, so the robot returned to the starting point. The attached file Test.txt has 20 strings.

Write a program to determine whether the robot can reach the origin after passing the action of each string. If it can, it will return True, if not, it will return False, and the result must be printed out.

Inpit:

[illegible]

Output :

```
11.2
Time 1: False
Time 2: True
Time 3: False
Time 4: True
Time 5: False
Time 6: False
Time 7: False
Time 8: True
Time 9: False
Time 10: True
Time 11: False
Time 12: False
Time 13: False
Time 14: False
Time 15: True
Time 16: False
Time 17: False
Time 18: False
Time 19: False
Time 20: True
```

Please note:: users of visual studio add the following code to your program's beginning

```
2  #pragma warning(disable:4996)
```

繳交格式及規定：

程式重點地方請加註解,給分也會酌量參考註解。

請繳交 .c 檔即可。

c 檔的檔名一律統一,以學號為檔名壓縮成一個以學號為名的壓縮檔
上傳,

上傳請一律繳交壓縮檔。

Example:

若學號為 B123456789, 則.c/.cpp 檔名為 B123456789.c ,

而壓縮檔名為 B123456789.rar 。

繳交期限 2023.12.07 (四) 09:00 分之前,逾期一律不收,

無輸入輸出及逾期者一律以 0 分計算。

作業請上傳中山網路大學 網大上傳方式:

1. 點選要繳交的作業,選擇「進行作業」。



2. 依照流程上傳檔案。

