Homework #1: Substitute

Due Date: 2017/03/02 Thr.

Instruction

Please turnin the program to PD.hw1; if overdue, turnin the program to PD.hw1.delay. 請將作業 turnin 至 PD.hw1; 遲交請 turnin 至 PD.hw1.delay。

Please finish demo before 2017/03/16 Thr. (two weeks after the due date). 請於 2017/03/16 Thr. (due date 後兩週) 前完成 demo。

Please contact pdta@gais.cs.ccu.edu.tw if any problem shall be encountered. 若有任何問題,請來信 pdta@gais.cs.ccu.edu.tw。 Identifying yourself and having proper signature are essential for TAs to reply. 請務必於信中表明身份,並於信末署名,以利助教群可以即時回覆。

Environment

CSIE workstations 系上工作站

Description

Compose a program performs pattern substitution.
Each line in testfile contains no more than 1000 characters.
撰寫程式進行關鍵字取代。測資中每行至多 1000 字元。

Read from stdin with function fgets() until EOF occurred, write to stdout. 自 stdin 以函式 fgets() 讀取測資至 EOF 止,寫出至 stdout。

Requirement

substitute [-i] [-a] source_pat target_pat

Options

- 1. -i: case insensitive 不分大小寫
- 2. -a: subsitute all matched patterns 取代所有符合的關鍵字

Grading Policy

Basic function: 70%
 Option -i: 15%
 Option -a: 15%

Sample

test.txt

apple is sweet, apple is red. I like Apple.

input 0

cat test.txt | ./substitute apple banana

output 0

banana is sweet, apple is red. I like Apple.

input 1

cat test.txt | ./substitute -a apple banana

output 1

banana is sweet, banana is red, I like Apple.

input 2

cat test.txt | ./substitute -a -i apple banana

output 2

banana is sweet, banana is red, I like banana.