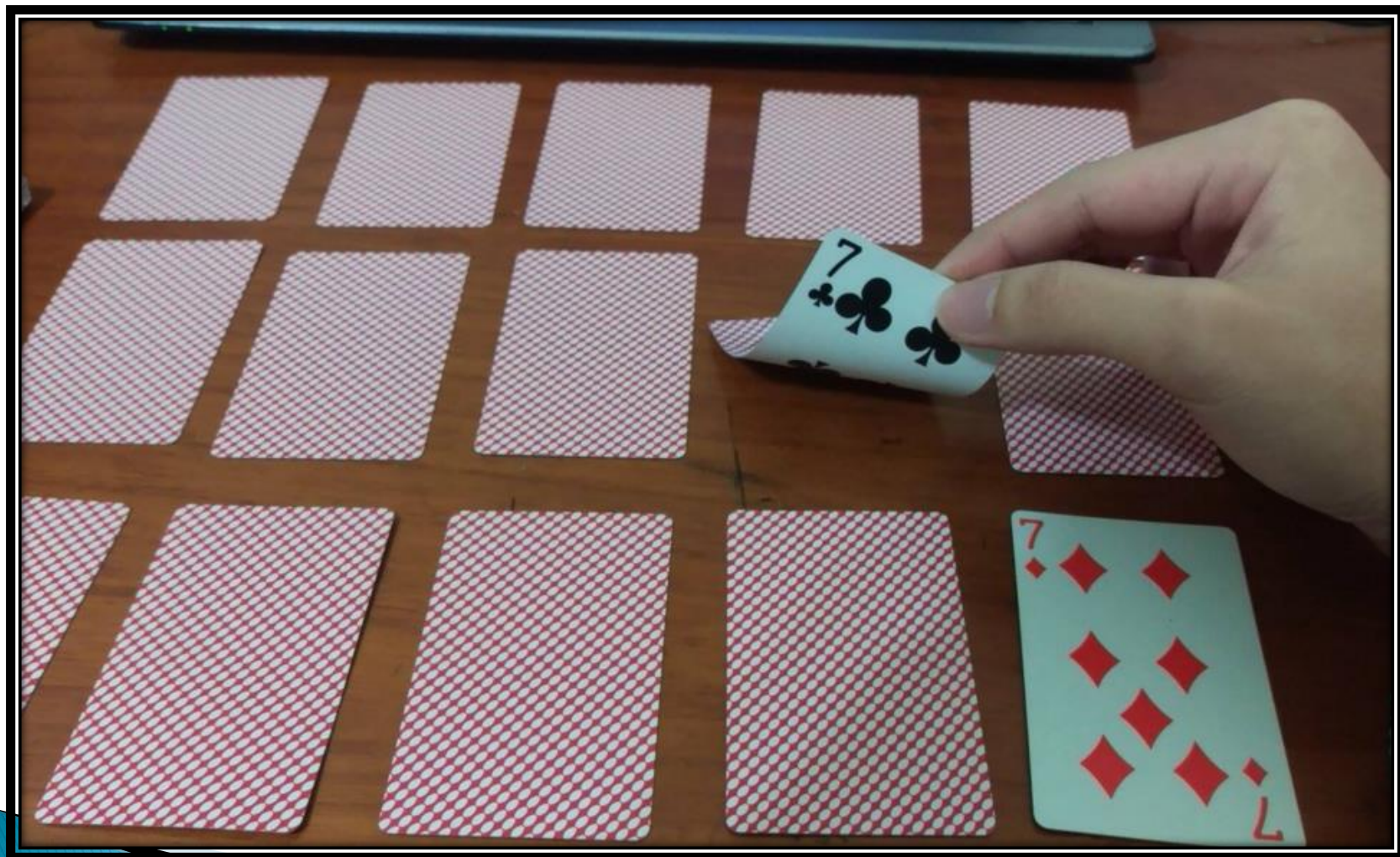


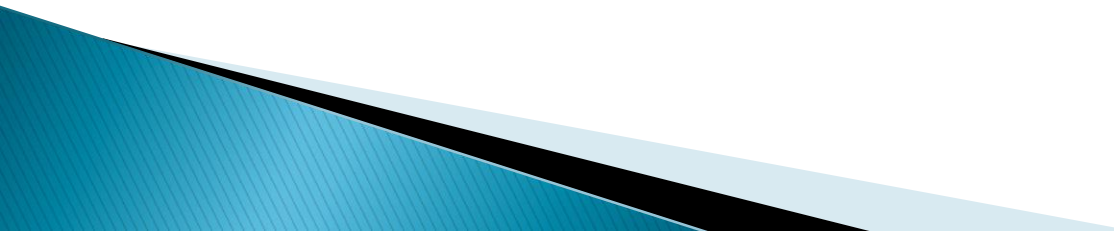
程式設計實習 - HW3

撲克牌小遊戲 - 釣魚

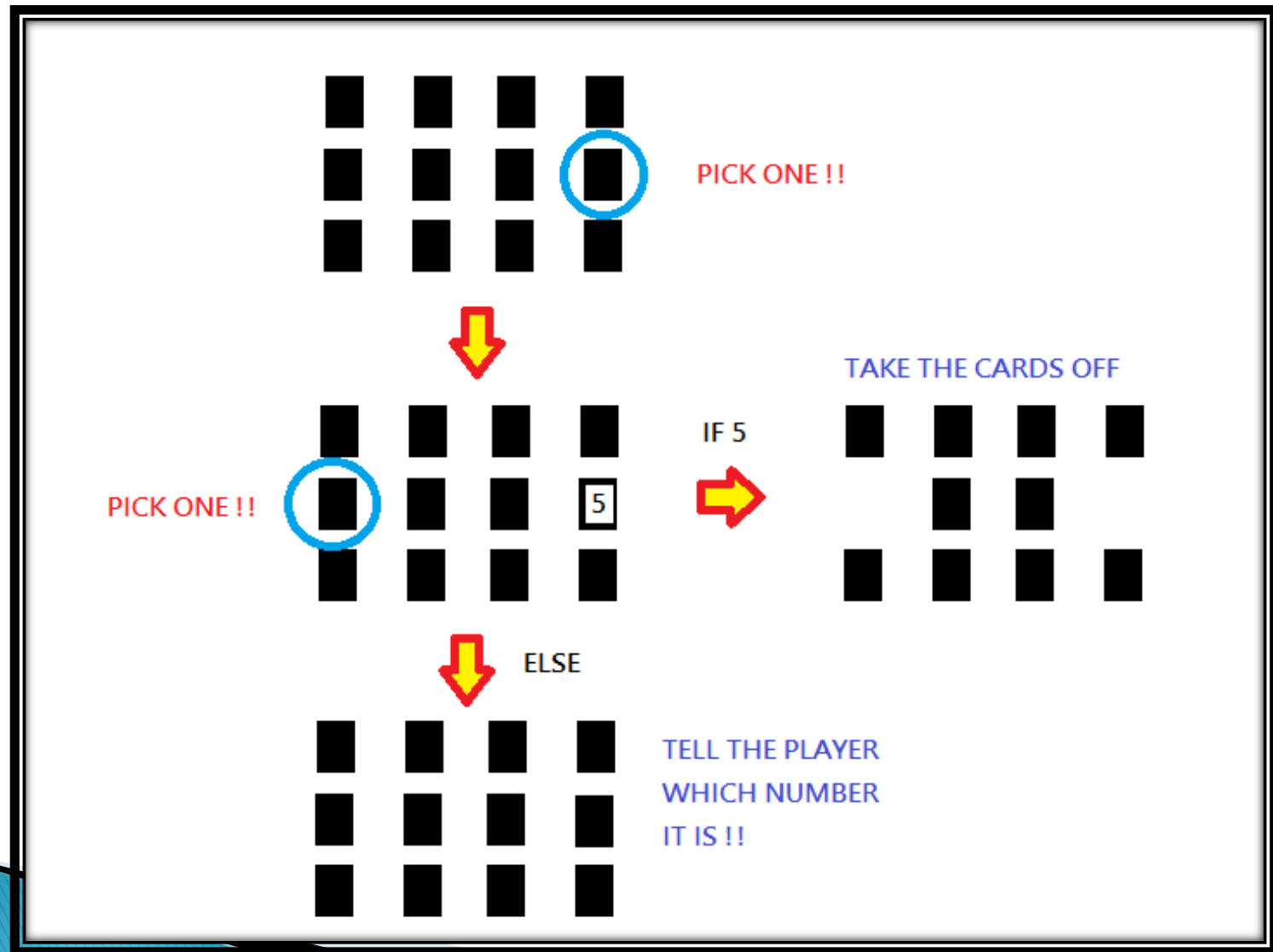
釣魚遊戲



遊戲規則

- ▶ 1. 將所有的撲克牌反面蓋上。
 - ▶ 2. 翻開任一一張牌。
 - ▶ 3. 再翻開另一張牌，如果翻開的兩張數字一樣，則可以將此兩張牌去除；反之則將該兩張牌蓋回去。
 - ▶ 4. 重複2.跟3.直至玩家將場上之所有撲克牌去除。
- 

遊戲規則



ABOUT THE CODE

- ▶ 設計一個含有四種功能的程式(總分) :
 - 1. 洗牌 (Shuffling) 30 %
 - 2. 開始遊戲 60 %
 - 3. 查看桌上的牌 (將所有的牌翻開) 8 %
 - 4. 離開程式 2 %

- ▶ 程式防錯要求(斟酌扣分) :
 - 1. 本作業需達成所要求之程式防錯功能 斟酌扣分 up to 6 %

- ▶ 使用者版面配置(斟酌扣分) :
 - 1. 必需和範例所呈現之內容完全一致 斟酌扣分 up to 3%

主介面

- ▶ 1. 提供使用者選擇功能：
 - 1. 洗牌 (Shuffling) 30 %
 - 2. 開始遊戲 60 %
 - 3. 查看桌上的牌 (將所有的牌翻開) 8 %
 - 4. 離開程式 2 %

- ▶ 2. 防錯：
 - 1. 防止適用者輸入超出1~4的數字 (只會輸入int type)

=====

Welcome to the game center !!

=====

- 1) Shuffling
- 2) Play!!
- 3) Show all
- 4) Exit :

=====

Welcome to the game center !!

=====

1) Shuffling

2)Play!!

3)Show all

4)Exit :5

=====

Wrong inputted ~~ Please type in again !!

=====

=====

Welcome to the game center !!

=====

1) Shuffling

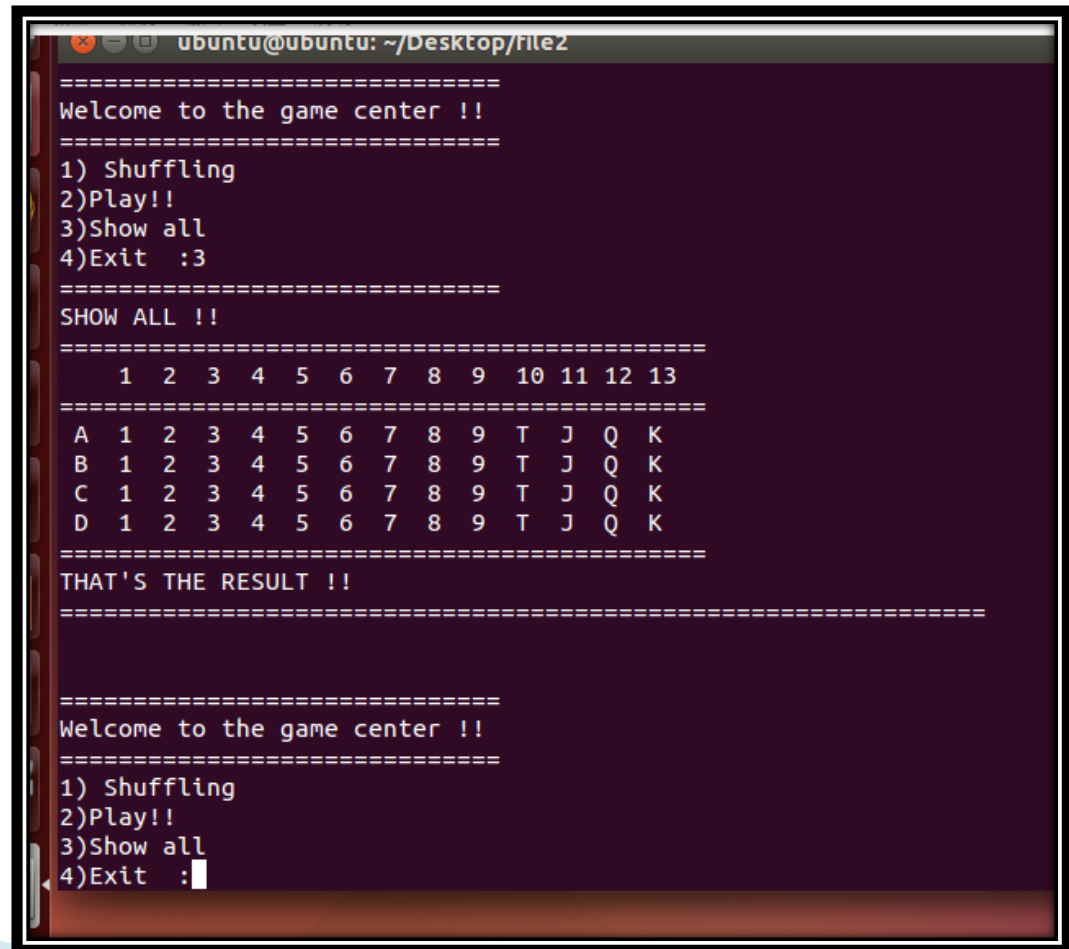
2)Play!!

3)Show all

4)Exit :

功能三：SHOW ALL

- ▶ 翻開所有的牌讓使用者觀看（8%）
- ▶ 共52張牌不計花色
- ▶ 以4*13的版面表示
- ▶ 縱軸附座標 A~D
- ▶ 橫軸附座標 1~13
- ▶ 間格為空白鍵



```
ubuntu@ubuntu: ~/Desktop/file2
=====
Welcome to the game center !!
=====
1) Shuffling
2) Play!!
3) Show all
4) Exit :3
=====
SHOW ALL !!
=====
   1  2  3  4  5  6  7  8  9 10 11 12 13
=====
A  1  2  3  4  5  6  7  8  9 T  J  Q  K
B  1  2  3  4  5  6  7  8  9 T  J  Q  K
C  1  2  3  4  5  6  7  8  9 T  J  Q  K
D  1  2  3  4  5  6  7  8  9 T  J  Q  K
=====
THAT'S THE RESULT !!
=====

=====
Welcome to the game center !!
=====
1) Shuffling
2) Play!!
3) Show all
4) Exit :|
```

功能一：洗牌

- ▶ 將52張牌以亂數隨機調換（30%）
- ▶ 提示：`srand()`、`rand()`、`time.h`
- ▶ 在洗牌完成之後告知使用者
- ▶ 檢查方式：
 - 利用 **Show all** 來比較洗牌前跟洗牌後的差異。

ubuntu@ubuntu: ~/Desktop/rilez

A	1	2	3	4	5	6	7	8	9	T	J	Q	K
B	1	2	3	4	5	6	7	8	9	T	J	Q	K
C	1	2	3	4	5	6	7	8	9	T	J	Q	K
D	1	2	3	4	5	6	7	8	9	T	J	Q	K

=====

THAT'S THE RESULT !!

=====

=====

Welcome to the game center !!

=====

1) Shuffling
2) Play!!
3) Show all
4) Exit :1

=====

Shuffling is completed !!

=====

=====

Welcome to the game center !!

=====

1) Shuffling
2) Play!!
3) Show all
4) Exit :

```
=====
Welcome to the game center !!
=====
```

```
1) Shuffling
2) Play!!
3) Show all
4) Exit :3
```



```
=====
SHOW ALL !!
=====
```

```
=====
1  2  3  4  5  6  7  8  9  10 11 12 13
=====
A  8  7  Q  1  8  5  6  5  1  T  4  4  4
B  K  8  4  3  2  K  5  J  2  1  1  J  9
C  J  5  7  K  9  3  2  Q  3  9  8  K  3
D  9  2  7  6  Q  T  T  T  7  6  J  Q  6
=====
```

```
=====
THAT'S THE RESULT !!
=====
```

```
=====
Welcome to the game center !!
=====
```

功能二：遊戲開始

- ▶ 開始讓玩家進行遊戲：
- ▶ 每回合分為兩部分：
 - 1. PART1：
 - 顯示出全部覆蓋的牌
 - 玩家選牌
 - 2. PART2：
 - 顯示出覆蓋的牌及**玩家翻開的牌**
 - 玩家選牌
 - 若玩家翻開的兩張牌數字**一樣則去除此兩張牌**
 - 若玩家翻開的兩張牌數字**不一樣則告知玩家第二張牌的值**
- ▶ 遊戲會持續至玩家清除所有的牌，或是直至玩家輸入'Q'方會停止並回到主畫面。

▶ 玩家選牌方式：

- 1. 同時輸入橫軸**數字**(int)和縱軸**字元**(char)。
- 2. 若在字元區輸入'**Q**' (無論數字正確與否)，則**遊戲結束**。

▶ 防錯功能：

- 1. 數字範圍：1~13
- 2. 字元範圍：A~D、Q (**大小寫皆可接受**)
- 3. **不需要防範數字與字元輸入順序顛倒的狀況**
- 4. 玩家不得選擇以去除之卡牌座標(**不能選不存在的牌**)
- 5. 玩家不得選擇PART1所選擇的牌(**不能選已翻開的牌**)

CASE : 兩張牌的數字不一樣

1. 需告訴玩家第二章牌的值

```
ubuntu@ubuntu: ~/Desktop/file2
B H H H H H H H H H H H H
C H H H H H H H H H H H H
D H H H H H H H H H H H H
=====
Choose a card (number,character) : 1a
=====
1 2 3 4 5 6 7 8 9 10 11 12 13
=====
A H H H H H H H H H H H H
B H H H H H H H H H H H H
C H H H H H H H H H H H H
D H H H H H H H H H H H H
=====
Choose a card (number,character) : 1A
Choose a card (number,character) : 1v
Choose a card (number,character) : 2a
That one is 8 !
=====
1 2 3 4 5 6 7 8 9 10 11 12 13
=====
A H H H H H H H H H H H H
B H H H H H H H H H H H H
C H H H H H H H H H H H H
D H H H H H H H H H H H H
=====
Choose a card (number,character) :
```


CASE : 兩張牌的數字一樣

1. 需去除該兩張牌

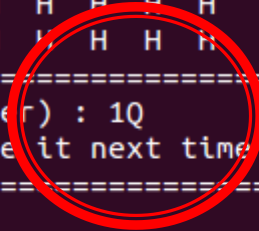
```
ubuntu@ubuntu: ~/Desktop/file2
=====
A H H H H H H H H H H H H H
B H H H H H H H H H H H H H
C H H H H H H H H H H H H H
D H H H H H H H H H H H H H
=====
Choose a card (number,character) : 13A
=====
  1  2  3  4  5  6  7  8  9 10 11 12 13
=====
A H H H H H H H H H H H 8
B H H H H H H H H H H H H
C H H H H H H H H H H H H
D H H H H H H H H H H H H
=====
Choose a card (number,character) : 2a
You find them !!
=====
  1  2  3  4  5  6  7  8  9 10 11 12 13
=====
A H H H H H H H H H H H
B H H H H H H H H H H H
C H H H H H H H H H H H
D H H H H H H H H H H H
=====
Choose a card (number,character) :
```

CASE : Quit the GAME

```
ubuntu@ubuntu: ~/Desktop/file2
A H H H H H H H H H H H 8
B H H H H H H H H H H H
C H H H H H H H H H H H
D H H H H H H H H H H H
=====
Choose a card (number,character) : 2a
You find them !!

=====
      1  2  3  4  5  6  7  8  9  10 11 12 13
=====
A H      H H H H H H H H H H
B H H H H H H H H H H H H
C H H H H H H H H H H H H
D H H H H H H H H H H H H
=====
Choose a card (number,character) : 1Q
Thats ok ~ maybe you will make it next time ...

=====
Welcome to the game center !!
=====
1) Shuffling
2) Play!!
3) Show all
4) Exit : 
```



CASE : WIN the GAME

```
=====
  1  2  3  4  5  6  7  8  9 10 11 12 13
=====
A
B
C                                     H
D                                     H
=====
Choose a card (number,character) : 13c
=====
  1  2  3  4  5  6  7  8  9 10 11 12 13
=====
A
B
C                                     K
D                                     H
=====
Choose a card (number,character) : 13d
You find them !!
Congratulations !! You have complete the mission !!
=====

=====
Welcome to the game center !!
=====
1) Shuffling
```

We can play again if we want !!

```
B
C
D
K
H
=====
Choose a card (number,character) : 13d
You find them !!
Congratulations !! You have complete the mission !!
=====

=====
Welcome to the game center !!
=====
1) Shuffling
2) Play!!
3) Show all
4) Exit :2
=====
GAME START !!
=====
  1  2  3  4  5  6  7  8  9 10 11 12 13
=====
A H  H  H  H  H  H  H  H  H  H  H  H
B H  H  H  H  H  H  H  H  H  H  H  H
C H  H  H  H  H  H  H  H  H  H  H  H
D H  H  H  H  H  H  H  H  H  H  H  H
=====
Choose a card (number,character) :
```

功能四：離開程式

結束並離開程式(2%)

```
Choose a card (number,character) : 1Q
Thats ok ~ maybe you will make it next time ...
=====

=====
Welcome to the game center !!
=====
1) Shuffling
2)Play!!
3)Show all
4)Exit :5
=====
Wrong inputted ~~ Please type in again !!
=====

=====
Welcome to the game center !!
=====
1) Shuffling
2)Play!!
3)Show all
4)Exit :4
=====
Goodbye my friend ~ !!
=====
ubuntu@ubuntu:~/Desktop/file2$
```

GOOD LUCK EVERYONE !!
Challenge make outstanding~~

