# 系統程式設計

# Lab7 setjmp/longjmp

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## 1. Where are the errors located?

### 以下是每個 Case 錯誤的地方:

1.	twetrewt.terthbbb.com.tw
	Email format error: at least one @
2.	spta@embed@ded.cs.cc@u.edu.tw
	@ found at 5
	@ found at 11
	@ found at 21
	Email format error: more than one @
3.	pv#pig@hot#mail.com
	@ found at 7
	# found at 3 (error occur)
	# found at 11 (error occur)
	Email format error: can't exists #
4.	pvpig@hot*mail.com
	@ found at 6
	* found at 10 (error occur)
	Email format error: can't exists *
5.	aaawww@ccu.csedu.tw
	@ found at 7
	found at 14 (error occur)
	Email format error: can't exists
6.	EA.EA@ccucsedutw
	@ found at 6

Email format error: at least one . behind the @

- What is the error message format?
   (you must not print any message after you print error message)
  - 1. Email format error: at least one @
  - 2. Email format error: more than one @
  - 3. Email format error: can't exists #
  - 4. Email format error: can't exists \*
  - 5. Email format error: can't exists ..
  - 6. Email format error: at least one . behind the @

輸出的方式和投影片範例的截圖一樣。

3. How did you use the setjmp/longjmp function?

### Setjmp:

第21行~第34行

## longjmp:

longjmp 會在 error 發生的時候被呼叫。

```
void compare_at(char *); // Sample Code 已經做好了
void compare_sharp(char *); // 第 76 行 longjmp(jmpbuffer, 3);
void compare_asterisk (char *); //第 88 行 longjmp(jmpbuffer, 4);
```

```
void compare_doubleDot(char *); //第 100 行 longjmp(jmpbuffer, 5);
void compare_dot(char *); //第 112 行 longjmp(jmpbuffer, 6);
```

#### 4. Final result.

#### Please attach screenshot!

```
owen@LAPTOP-65HPDS2:/mnt/c/Users/Admin/Desktop/SP/Lab7/Lab7_example$ ./lab7_stu
spta@embedded.cs.ccu.edu.tw
@ found at 5
valid email address!
twetrewt.terthbbb.com.tw
Email format error: at least one @
spta@embed@ded.cs.cc@u.edu.tw
@ found at 5
@ found at 11
@ found at 21
Email format error: more than one @
pv#pig@hot#mail.com
@ found at 7
# found at 3 (error occur)
# found at 11 (error occur)
Email format error: can't exists #
pvpig@hot*mail.com
@ found at 6
* found at 10 (error occur)
Email format error: can't exists *
aaawww@ccu.cs..edu.tw
@ found at 7
.. found at 14 (error occur)
Email format error: can't exists ...
EA.EA@ccucsedutw
@ found at 6
Email format error: at least one . behind the @
```