

國立屏東大學 資訊工程學系 程式設計(二)

作業16

turnin code **c.hw16**

due date: **May 27, 16:30**

1. 延續上次的作業15

設計一個C語言程式名為stringBox3.c可進行不定個數的字串操作，其中每個字串長度亦不固定。在你的程式中，必須宣告一個指標永遠指向目前字元數最長的字串，如果一樣時，則列出最後加入的字串。程式執行時，可接受使用者命令進行相關操作，包含：

1. l 列示目前已有的字串
2. i 新增字串(字串中不會有空白字元)
3. m 列示字元數最多的字串(若字元數相同時，則列出最後新增的字串)
4. d 刪除字串(從1開始)
5. e 清空整個盒子
6. q 結束程式的執行

程式執行結果參考：

```
[9:19 user@ws hw16] ./a.out
[command] l
-empty-
[command] m
-null-
[command] q
-bye-
[9:19 user@ws hw15] ./a.out
[command] l
-empty-
[command] i
string=? Happy
[command] l
Happy-->end
[command] i
string=? birthday
[command] i
string=? to
[command] i
string=? someOneWithAVeryVeryLongName
[command] l
Happy-->birthday-->to-->someOneWithAVeryVeryLongName-->end
[command] m
The string with maximum length is someOneWithAVeryVeryLongName.
[command] i
```

```
string=? abcdefghijklhhhhhhhhhhhhhhhhhhhhh  
[command] m  
The string with maximum length is abcdefghijklhhhhhhhhhhhhhhhhhhhhh.  
[command] i  
string=? aaa  
[command] i  
string=? bbb  
[command] i  
string=? ccc  
[command] i  
string=? ddd  
[command] i  
string=? eee  
[command] l  
Happy-->birthday-->to-->someOneWithAVeryVeryLongName-  
->abcdefghijklhhhhhhhhhhhhhhhhhhhhh-->aaa-->bbb-->ccc-->ddd-->eee-->end  
[command] i  
string=? fff  
[command] l  
Happy-->birthday-->to-->someOneWithAVeryVeryLongName-  
->abcdefghijklhhhhhhhhhhhhhhhhhhhhh-->aaa-->bbb-->ccc-->ddd-->eee-->fff-->end  
[command] m  
The string with maximum length is abcdefghijklhhhhhhhhhhhhhhhhhhhhh.  
[command] d  
which one? 5  
[command] l  
Happy-->birthday-->to-->someOneWithAVeryVeryLongName-->aaa-->bbb-->ccc-  
->ddd-->eee-->fff-->end  
[command] m  
The string with maximum length is someOneWithAVeryVeryLongName.  
[command] i  
string=? ggg  
[command] l  
Happy-->birthday-->to-->someOneWithAVeryVeryLongName-->aaa-->bbb-->ccc-  
->ddd-->eee-->fff-->ggg-->end  
[command] d  
which one? 8  
[command] l  
Happy-->birthday-->to-->someOneWithAVeryVeryLongName-->aaa-->bbb-->ccc-  
->eee-->fff-->ggg-->end  
[command] d  
which one? 8  
[command] d  
which one? 8  
[command] l  
Happy-->birthday-->to-->someOneWithAVeryVeryLongName-->aaa-->bbb-->ccc-  
->ggg-->end  
[command] d  
which one? 9  
out of range!  
[command] e
```

```
[command] l
-empty-
[command] q
-by-
[9:19 user@ws hw16]
```

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