Arrays

1.

0 0 0 0 0 0 1 0 0 1 1 1 (注意陣列被定義時，元素全部初始化為0)

2.

a[0][0] is 1

a[0][1] is 0

a[1][0] is 2

a[1][1] is 3

a[2][0] is 0

a[2][1] is 0

2.

sizeof la is 400

sizeof pla is 4 ----> 8 (sizeof(any\*) in 64xcomputer is 8)

sizeof la is 400

5.

add : 5

mult: 6

More on Pointers and Array

注意:

arr[i] is an alias of \*(a+i). Furthermore, i[arr] is valid.

Size of Pointers and Arrays

1.

sizeof(int) : 4

sizeof(int[M]) :12

sizeof(int[N]) : 8

sizeof(int[N][M]) : 24

sizeof(int[M][N]) : 24

sizeof(void\*) : 8

sizeof(int\*) : 8

sizeof(int\*\*) : 8

sizeof a : 24

sizeof \*a : 4

sizeof b : 24

sizeof \*b : 12

sizeof \*\*b : 4

sizeof c : 24

sizeof \*c : 8

sizeof \*\*c : 4

sizeof pa : 24

sizeof \*pa : 4

sizeof pb : 16

sizeof \*pb : 8

sizeof \*\*pb : 4

sizeof pc : 24

sizeof \*pc : 8

sizeof \*\*pc : 4

注意:

Whatever the pointer(etc:void\*,int\*,int\*\*,int\*\*\*\*\*….) is, it should be 8-bytes.(64-bit computer)

2. Array as Arguments

8

8

3.

pt = &ar1[0][0];

pt = ar1[0];

pa = ar1;

p2 = &pt;

\*p2 = ar2[0];

指標真的是很難，這次作業一邊做的時候我一邊看著講義，否則實在做不出來。我感覺有時候差一點就想出來了，卻還是選錯答案，或許我還不夠熟練指標的運用吧!經過這次的筆試練習，讓我覺得自己對於這個高深的概念又掌握了許多，對於lab躍躍欲試了呢。