

長庚大學109學年度第一學期 作業系統 第一次小考 滿分100

系級:

姓名:

學號:

1. The question is on the slide. (40%)

Statement 1 !

Statement 2 !

Statement 4 !

Statement 5 !

Statement 3 !

Statement 4 !

Statement 5 !

Statement 5 !

2. Assume that the fork() function is always successful, please provide the output of the following program. (60%)

```
#include<sys/types.h>
#include<stdio.h>
#include<unistd.h>
int main()
{
    pid_t pid, pid2;
    printf("aaa\n");
    pid = fork();
    if (pid == 0)
    {
        pid2 = fork();
        if (pid2 == 0)
        {
            printf("bbb\n");
        }
        else
        {
            wait(NULL);
            printf("ccc\n");
        }
        printf("ddd\n");
    }
    else
    {
        wait(NULL);
    }
    printf("fff\n");
    return 0;
}
```

aaa

bbb

ddd

fff

ccc

ddd

fff

fff

3. 回家作業加分題 (小考成績加40，若已是100則學期總成績+2分)