CPST 360 Pre lab 3

1. Process Is the execution of an image

Pid,ppid:process id, parent process pid

Status: PROC status=Free| Ready, etc

Priority:scheduling priority

Event:event value to sleep on

Exitcode:exit value

Child points to the first child of a process

Sibling points to a list of other children of the same parent

Parent to point to a parent

5.

Fork:create child task and enters it into ready queue

Switch:process context switching

Exit:process call exit(value)

Sleep:let process go to sleep

Wakeup:wake up all the process sleeping on event value

Wait:process return -1 for error if has no child otherwise it searches for a zombie child

6.

Fork:

proc 1 kforked a child = 2

readyQueue = [2 1]->[0 0]->NULL

7times because it has 8 free list but starting at 1st

7.

It went to parent because we switched to p2

We have a sleep list now(p2) because we set sleep to the value we inputted

Now the sleep list is gone because we woke up the sleep list value 2

Nothing happen because we don have sleep list

8.

proc 1 wait for ZOMBIE child

wait error : no child

because it has no child so it return -1

proc1 because p2 has died and exited with code 123

p2 status = zombie

proc 1 wait for ZOMBIE child

proc 1 waited for a ZOMBIE child 2 status=0x7b

because p1 has dead child which is p2

proc 3 resume to body() because we forked the child p3 and created child task

proc 1 waited for a ZOMBIE child 3 status=0x7b

free because we did not made zombie child and just exited

9. because when we exit from p2 it goes to parent which is p2

P2

They became ready

proc 1 wait for ZOMBIE child

proc 1 waited for a ZOMBIE child 2 status=0x7b

and proc 2 became free

proc 1 wait for ZOMBIE child

proc 1 in scheduler()

readyQueue = [3 1]->[4 1]->[5 1]->[0 0]->NULL

next running = 3

proc 3 resume to body()

proc3 became body because 3 was the first at the readqueue

wakeup and switch to the proc1