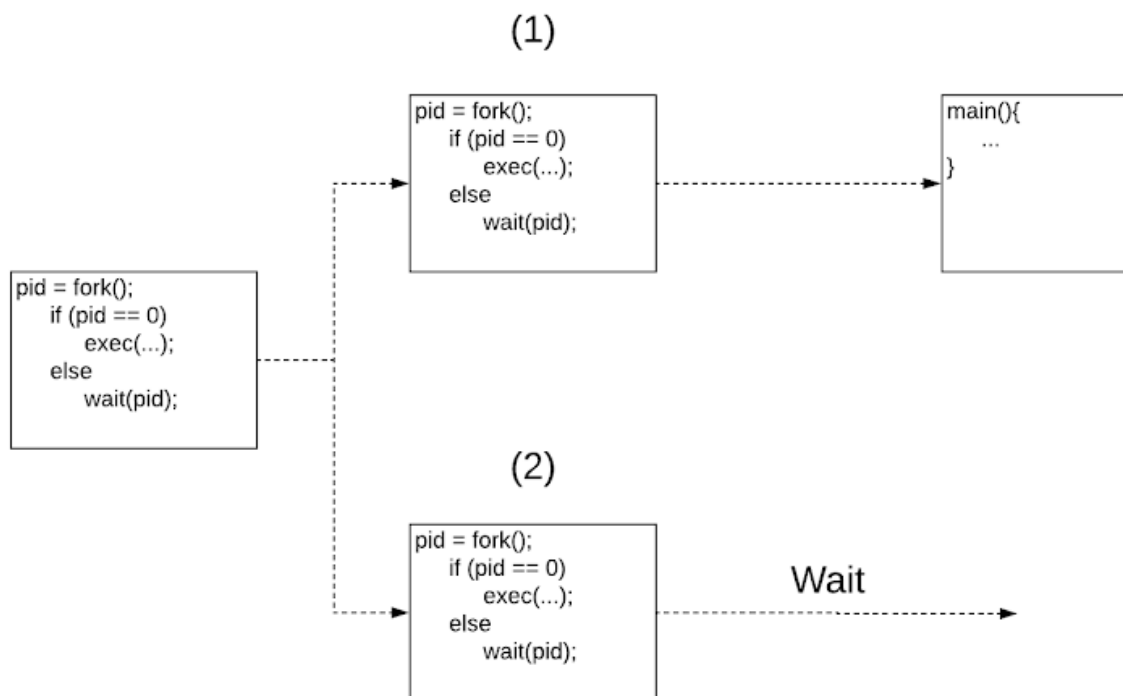


CSCI 144 Chapter 3 Practice Quiz

Total points 7/14

✓ Which process is the parent and which process is the child?

1/1



☐ (1) is the parent and (2) is the child

☒ (1) is the child and (2) is the parent



✗ UNIX fork takes the arguments: fork(prog, args)

0/1

☒ True

✗

☐ False

Correct answer

☒ False

Feedback

Correct Answer: UNIX exec takes those arguments

✗ UNIX exec creates a new process

0/1

☒ True

✗

☐ False

Correct answer

☒ False

Feedback

Correct Answer: it does not create a new process



✗ UNIX _____ is used for terminating an application, suspending it temporarily, resuming after a suspension, timer expiration, and a host of other reasons 0/1

.....

Correct answers

signal

signals

Signal

Signals

Feedback

Correct Answer: signal



✓ For Figure 3.5, assuming the Process ID = 456, what are the possible outputs for this piece of code?

2/2

```
int child_pid = fork();

if (child_pid == 0){
    printf("i am process #%d\n", getpid());
    return 0;
}
else{
    printf("i am the parent of process #%d\n", getpid());
    return 0;
}
```

- ☒ "I am process 456" followed by "I am the parent of process 456" ✓
- ☐ 0
- ☒ "I am the parent of process 456" followed by "I am process 456" ✓
- ☐ All of these
- ☐ None of these

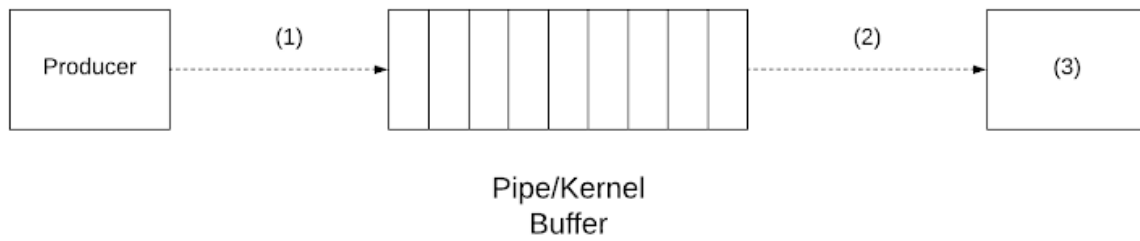
✗ UNIX ____ tests if a file exists, optionally create it if it does not, and then opens it 0/1

Feedback

Correct Answer: open



✗ In Figure 3.6, a pipe is a temporary kernel buffer connecting a process with another process. Please fill in the blanks: "(1), (2), (3)" 0/3



Correct answers

write, read, consumer
write, read, Consumer
Write, Read, consumer
Write, Read, Consumer
write, Read, Consumer
Write, read, Consumer

Feedback

Correct Answer: write, read, Consumer



✓ UNIX splits CreateProcess into two steps called:

2/2

☐ pid☒ fork

✓

☒ exec

✓

☐ signal

✓ UNIX Wait pauses the parent until the child finishes, crashes, or is terminated

1/1

☒ True

✓

☐ False

✓ Which UNIX operation creates a complete copy of the parent process, with one key exception

1/1

☐ exec☒ fork

✓

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