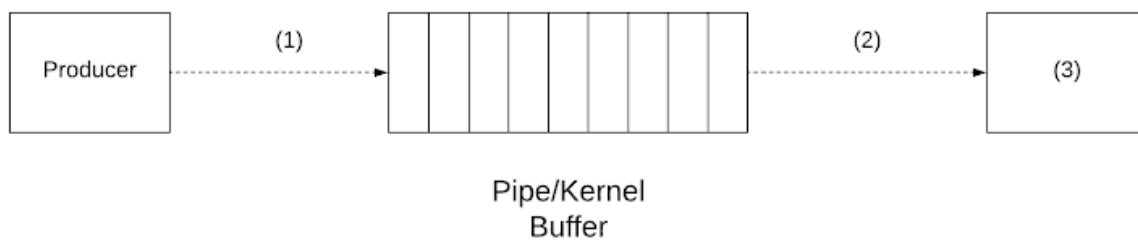


CSCI 144 Chapter 3 Practice Quiz

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)" 3 points



Your answer



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

2 points

```
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 _____ is used for terminating an application, suspending it temporarily, resuming after a suspension, timer expiration, and a host of other reasons

1 point

Your answer

UNIX splits CreateProcess into two steps called:

2 points

- ☐ pid
- ☐ fork
- ☐ exec
- ☐ signal



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

1 point

- ☐ True
- ☐ False

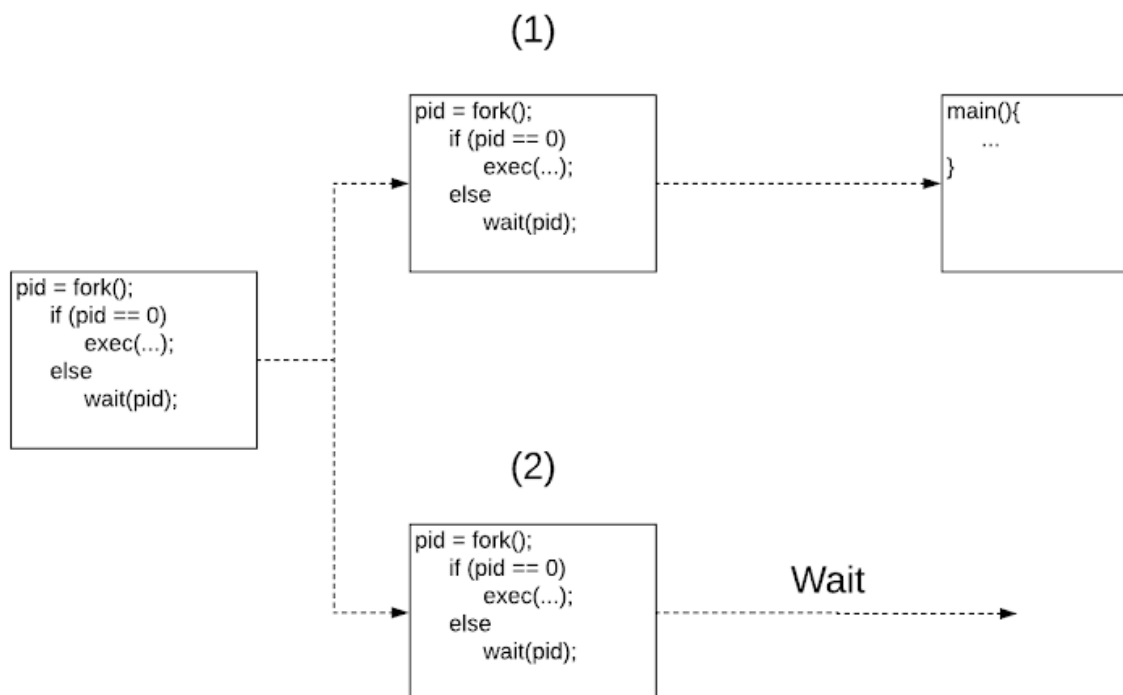
UNIX Wait pauses the parent until the child finishes, crashes, or is terminated

1 point

- ☐ True
- ☐ False

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

1 point



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



UNIX exec creates a new process

1 point

- ☐ True
- ☐ False

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

1 point

- ☐ exec
- ☐ fork

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

1 point

Your answer

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