

Question 1

Correct

Mark 1.00 out of 1.00

Processes are partially self-contained executing programs. Which of the following does a process have its own of?

- ☐ a. Physical memory
- ☒ b. List of open files ✓
- ☐ c. Copies of open files
- ☒ d. Program counter ✓
- ☒ e. Address space ✓ Yes, though note that a "task" doesn't, always. More on that next week.

Check

Your answer is correct.

You have correctly selected 3.

Correct

Marks for this submission: 1.00/1.00.

Question 2

Correct

Mark 0.67 out of 1.00

The code below has many problems, but two could stop it from working as intended. Which are they?

It is intended to handle newly spawned windows in a multi-window application by `fork()`ing a new process to handle the window, then returning immediately.

```
int handle_fork(int parentToChild[2], int childToParent[2]) {
    if (fork() > 0) {
        close(parentToChild[0]);
        close(childToParent[1]);
        handle_window(parentToChild, childToParent); // Can communicate with parent process via pipe.
    } else {
        // Close all.
        close(parentToChild[0]);
        close(parentToChild[1]);
        close(childToParent[0]);
        close(childToParent[1]);
    }
}
```

Select one or more:

- ☒ a. The request is being handled in the parent not the child, so everything is being run in serial by a single process. ✓
- ☐ b. There is no error checking to see if the fork has failed.
- ☒ c. The pipe file handles are fully closed by one process, so the communication is unable to happen. ✓
- ☐ d. The ends of the pipe are (file handles) are not closed in the parent, so the parent will keep receiving data from the pipe.

Check

Your answer is correct.

You have correctly selected 2.

Correct

Marks for this submission: 1.00/1.00. Accounting for previous tries, this gives **0.67/1.00**.