

# Quiz

March 7, 2023

Which of the followings is/are true about fork() and exec()?

- ☐ A In the parent process, fork() returns 0; in the child process, fork() returns its own pid.
- ☒ B The parent and child process share the same program counter, memory content, and opened files.
- ☒ C Copy-on-write means the address space of the parent and child processes are only copied when updated
- ☐ D Calling exec() to load the same program into the memory is equivalent to not calling exec() at all

提交

Which of the followings is/are true about `exit()` and `wait()`?

- ☒ A `Exit()` is always invoked when the process terminates
- ☐ B `Exit()` sends `SIGCHLD` to the parent process if the parent process is already waiting by calling `wait()`
- ☒ C `Exit()` frees allocated kernel memory and everything on the userspace memory
- ☒ D A process becomes a zombie process when it is terminated but not yet cleaned up by its parent process

提交