1.

(a)

1.Memory space, Code and executable files, Open file descriptors, Signal handlers.

2.When working on the thread belongs to different process, we need to switch the page table.

(b)

No, because parent process will wait until child process finished. If there is only one thread in the process, one input will wait for another.

(c)

There will be 4.

First fork() will create a thread 1 from origin thread 0.

Because first fork() return the PID of the child process , which is greater than 0, so next fork() won’t be executed. We then have thread 0 and thread 1.

Then the third fork() will fork thread 0 and 1, leading to 4 threads at last.

2.