

Network Programming Homework 0

Name :

ID :

Code	Output	
<pre>int main() { fstream seq_file("seqno.txt"); int seqno, pid = getpid(); for (int i = 0; i < 20; ++i) { 1: my_lock(seq_file); seq_file.seekg(ios::beg); /* rewind before read */ 2: seq_file >> seqno; 3: cout << "pid=" << pid << ", seq#=" << seqno << endl; 4: ++seqno; seq_file.seekp(ios::beg); /* rewind before write */ 5: seq_file << seqno << endl; 6: my_unlock(seq_file); } }</pre>	<pre>pid=186, seq#=1 pid=186, seq#=2 (1) pid=187, seq#=3 pid=187, seq#=4 pid=187, seq#=5 (2) pid=186, seq#=6 pid=186, seq#=7 pid=186, seq#=8 (3) pid=187, seq#=9 pid=187, seq#=10 pid=187, seq#=11 (4) pid=186, seq#=9 pid=186, seq#=10 pid=186, seq#=11 pid=186, seq#=12 (5) pid=187, seq#=12 pid=187, seq#=13 pid=187, seq#=14 pid=187, seq#=15 (6)</pre>	<pre>pid=186, seq#=13 pid=186, seq#=14 pid=186, seq#=15 pid=186, seq#=16 pid=186, seq#=17 (7) pid=187, seq#=18 pid=187, seq#=19 pid=187, seq#=20 pid=187, seq#=21 (8) pid=186, seq#=18 pid=186, seq#=19 pid=186, seq#=20 pid=186, seq#=21 pid=186, seq#=22 pid=186, seq#=23 (9) pid=187, seq#=22 pid=187, seq#=23 pid=187, seq#=24 pid=187, seq#=25 pid=187, seq#=26 pid=187, seq#=27</pre>

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Switch	Execute Blocks		Description
	pid = 186	pid = 187	
(1)	Line 6 ~ 1		由 (2) switch 回 pid=186 · 發現 pid=186 尚未讀取檔案 Switch back to pid=186 at time (2), pid=186 has not read file yet.
(2)			
(3)			
(4)			
(5)			
(6)			
(7)			
(8)			
(9)			