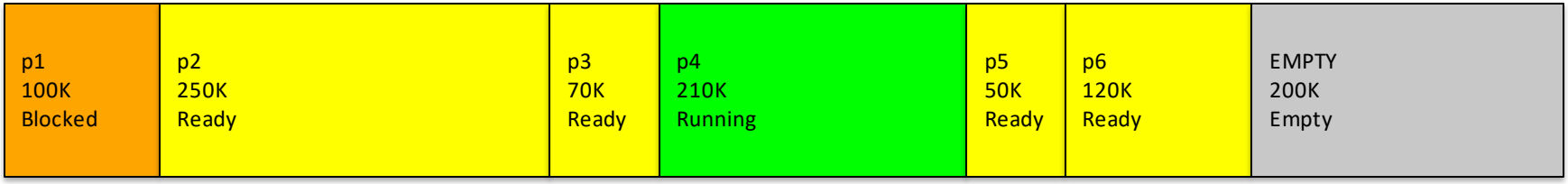
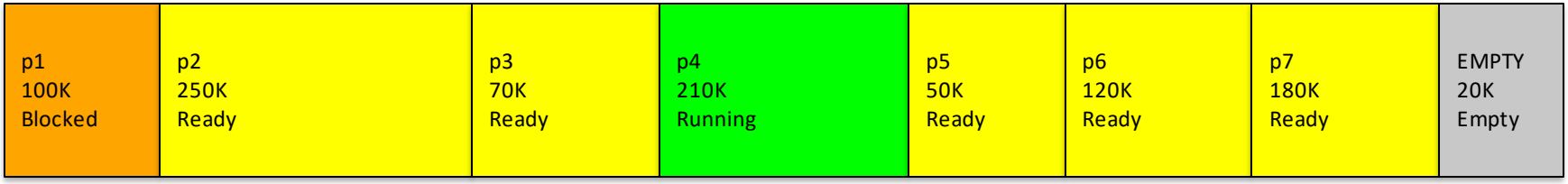
Event 1 - After p1 Blocked and p4 Running



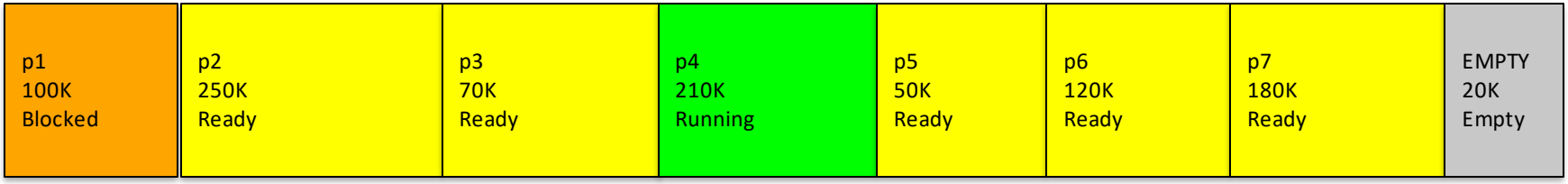
p1 tried to access a file currently used by another process and was blocked. According to student ID rule, p4 was selected to run.

Event 2 - p7 (180K) Loaded as Ready



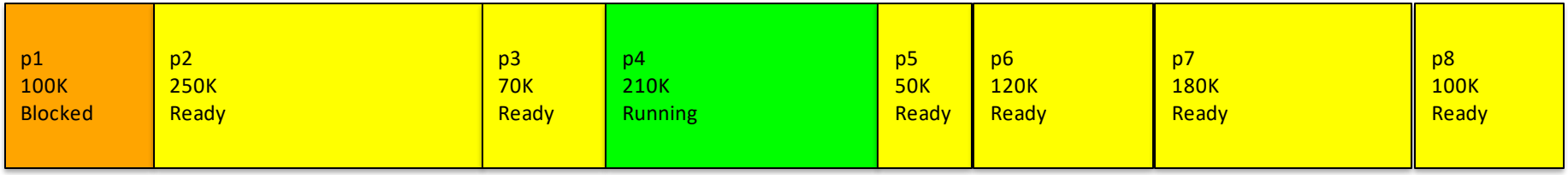
There was 200K free memory, so a new process p7 (180K) was successfully loaded into memory as Ready.

Event 3 - After Compaction (before loading p8)



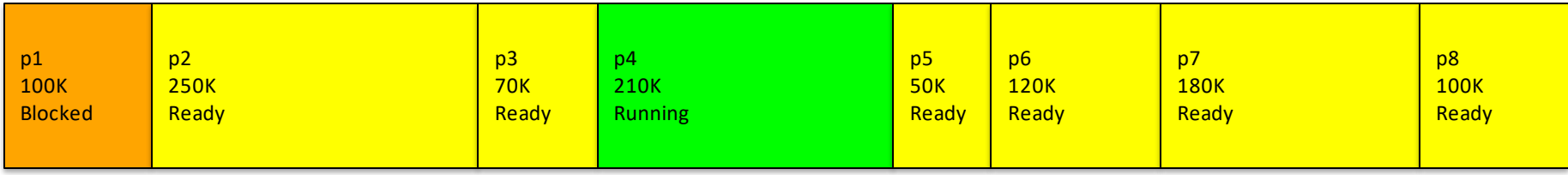
A new process p8 (100K) was scheduled to be loaded, but only 20K free space was available. Compaction was performed to consolidate free memory.

Event 3 - After Loading p8 (100K Ready)



After compaction, 100K of contiguous memory was created and p8 was successfully loaded into memory.

Event 4A - After Compaction (Still No Space for p9)



p9 required 150K, but memory was fully used. Compaction was performed again, but still insufficient space was available.

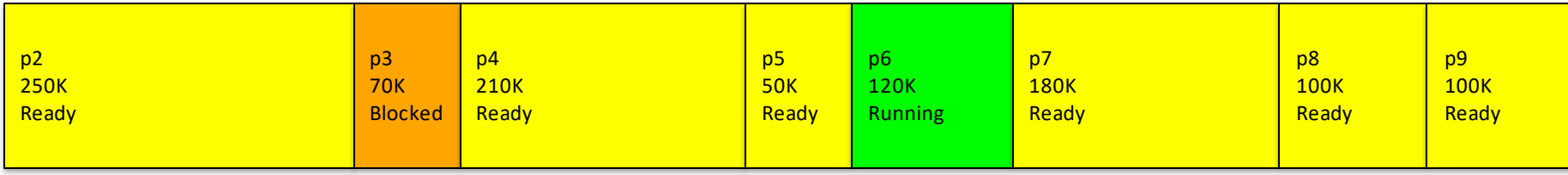
Event 4B - After Suspending p1 (Swap Out)

To make space for p9, the blocked process p1 was suspended and swapped out, freeing 100K of memory.

Event 4C - After Loading p9 (100K Ready)

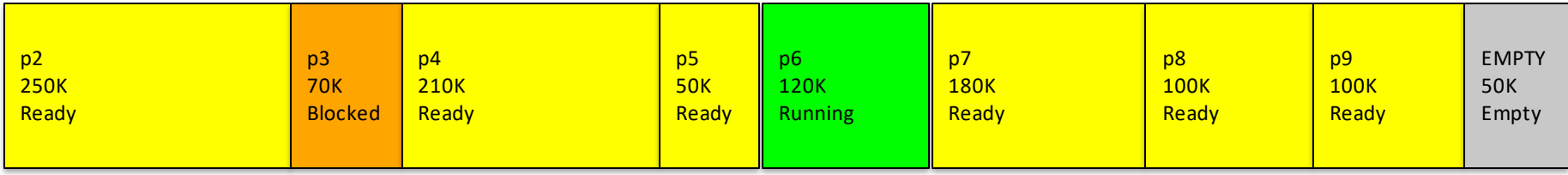
p9's requirement was reduced to 100K. It was successfully loaded into the available space after the swap-out of p1.

Event 5 - p3 Blocked (Network Failure), p6 Running



While running, p3 experienced a network timeout and moved to the Blocked state. p6 was selected from the Ready queue to run.

Event 6A - After Compaction for p10 (50K)



p10 (50K) was scheduled to enter memory but no space was available. Compaction was performed, making 50K space available.

Event 6B - After Loading p10 (50K Ready)

After compaction, p10 was successfully loaded into memory.

Event 7 - p8 Terminated (Frees 100K)

p8 completed its execution and was terminated, freeing 100K in memory.