Same old same old I have no idea what I’m doing so take my answers lightly

1a)

bi) Yes, as it is all handled by the kernel and so there are no issues

ii)

ci) The producer won’t be able to run at all until the unrelated thread stops

ii) It could only let the threads run for a certain length of time before stopping them (or even decreasing their priority) to allow other threads to run

iii) Allocate each thread to be able to use a certain percentage of the CPU either via a lottery or some other method and then let them run

d) not sure but it could be that it breaks the “no preemption” condition and so eliminates deadlocks. However, it may also then lead to live locking

2a) nah

bi)

Optimal: is a non-realistic approach where we know what pages will be needed ahead of time and so can plan our evictions accordingly (not actually possible sadly)

FIFO: literally just First frame In is the First Frame out

Clock / 2nd Chance: cba

ii) cba

iii) idk