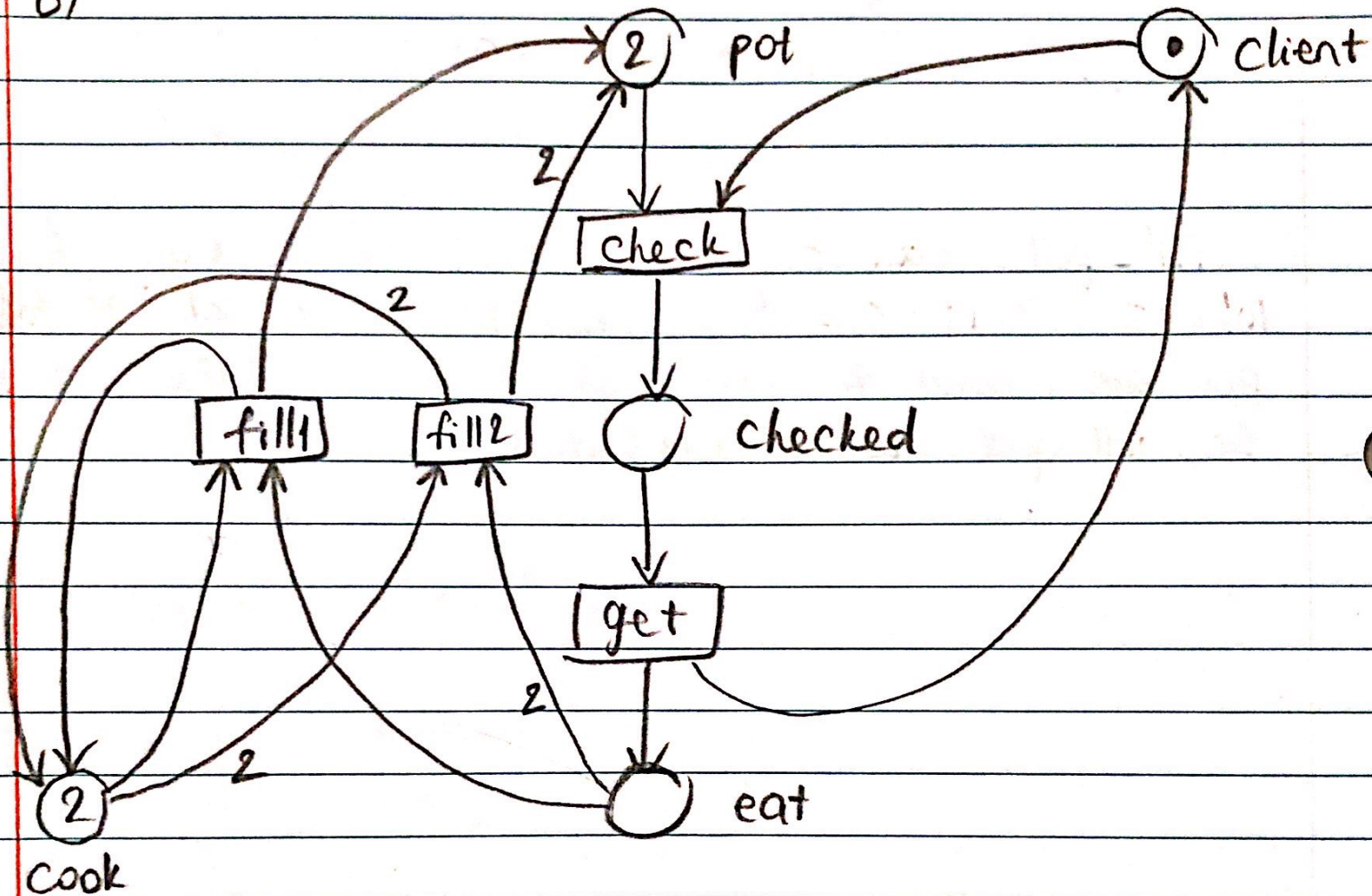b)

This guarantees the cook never puts a burger in a full pot since fill1 or fill2 can be fired only when eat has at least 1 token. This can only happen when pot loses at least 1 token, which means the pot is not full.