

There are three problems labeled A–C to be handed in.

A. Problem 3.14 (about PDAs with queues instead of stacks).

B. Problem 3.15bcde (about closure properties of the class of decidable languages).

C. Problem 3.16bcd (about closure properties of the class of recognizable languages).

Problem D below is optional. You are not expected to hand it in.

D. Why is complementation part of Problem 3.15 but not part of Problem 3.16? Why can't your argument for Problem 3.15d be adapted to the recognizable case (in any obvious way, at least)?