

On these problems, it is expected that your constructions are pretty sketchy, like the constructions done today in class. That's okay. Nevertheless, your solutions should address any major pitfalls that you discover. The second problem below definitely has pitfalls.

A. Do Problem 3.9 (about k -PDAs).

B. Do Problem 3.12 (about left-reset instead of left). Be careful in your answer. It's easy to dismiss this problem, before you understand how subtle it is. For example, if you find yourself saying "do ... to the cell just to the left of ... on the tape", then you are not grappling with the difficulty of the problem.

C. Do Problem 3.13 (about stay-put instead of left).