

Hw2

Jackson Mowry

<2024-09-08 Sun>

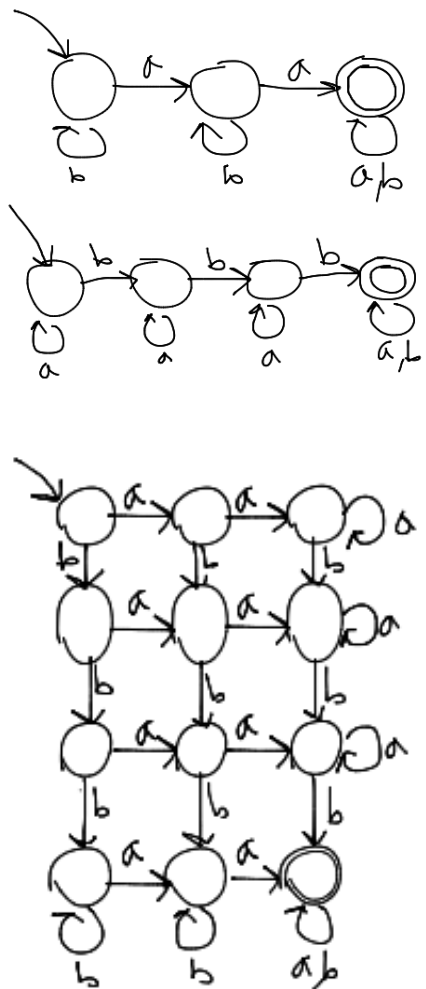
Contents

I Problem 1 1

II Problem 2 3

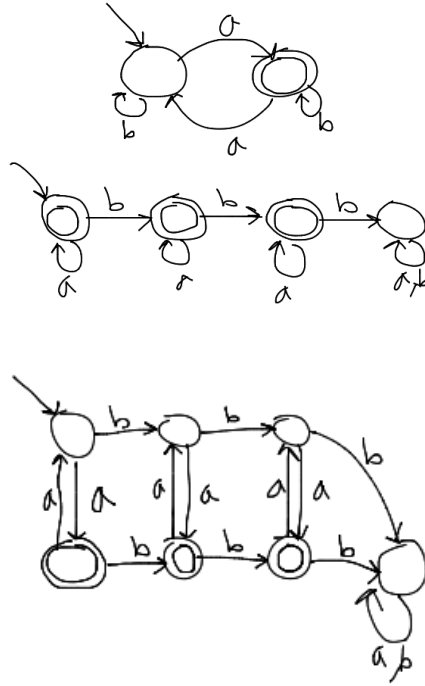
I Problem 1

1. $\{w \mid w \text{ has at least 2 a's and at least 3 b's}\}$



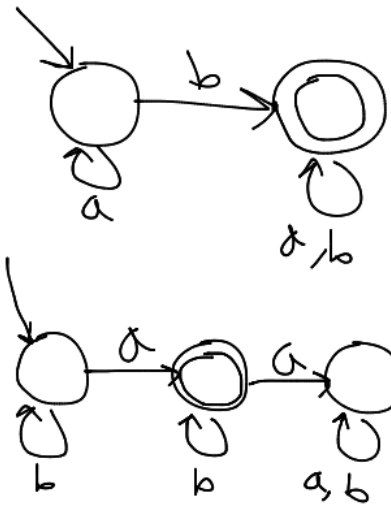
simple, then final

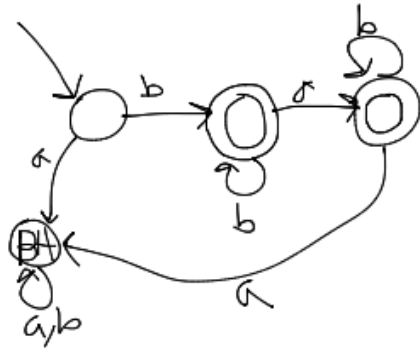
1. $\{w \mid w \text{ has an odd number of a's and no more than 2 b's}\}$



simple, then final

1. $\{w \mid w \text{ starts with the character } b \text{ and has at most } 1 \text{ } a\}$

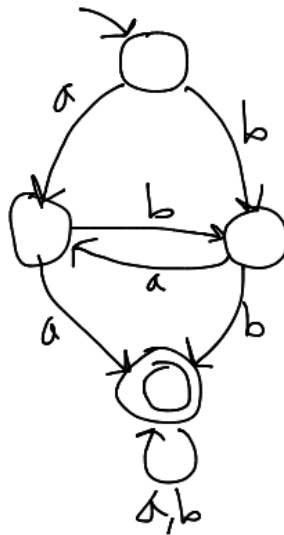


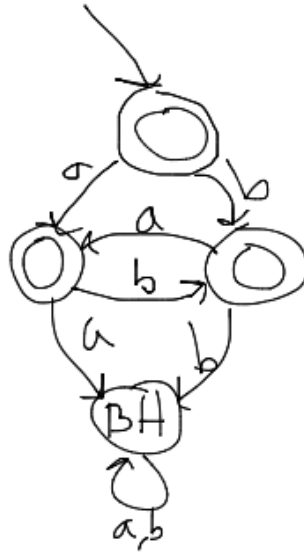


simple, then final

II Problem 2

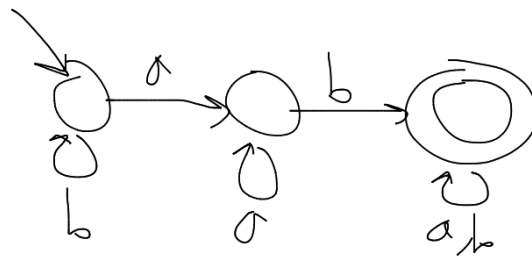
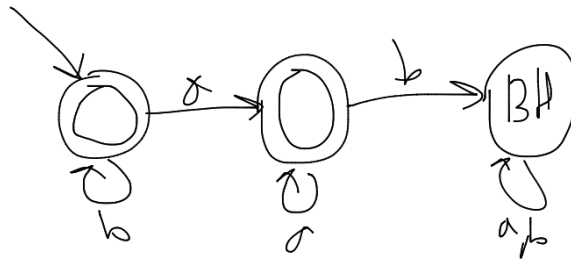
1. $\{w \mid w \text{ contains neither the substring } aa \text{ nor the substring } bb\}$





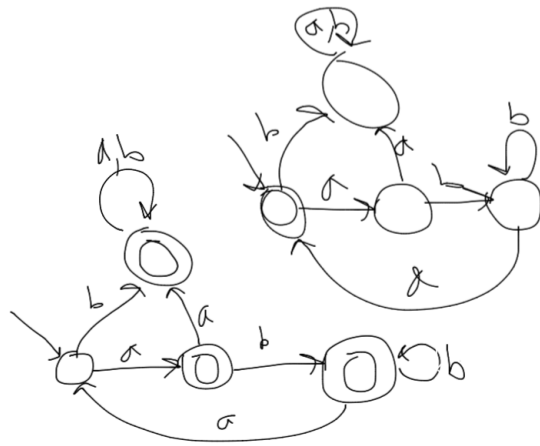
Simple first, final last

1. $\{w \mid w \text{ is any string not in } b^*a^*\}$



Simple top, final bottom

1. $\{w \mid w \text{ is any string not in } (ab^+a)^*\}$



Simple top right, final bottom left