Task1

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1. 1

- (a) aaaa => aaa
- (b) E
- (d) bbababaaaa => abababaaaa => aaababaaaa => aaaaabaaaa => aaaaaaaaaa => aaaaaaaaaa
- (e) bbbbb => abbbb => aabbb => aaabb => aaaab => aaaa => aaaa
- (f) ababababa => aa
aabababa => aaaaababa => aaaaaaaaba => aaaaaaaaa => aaaaaaaa

2

- (a) aaaa => baaa
- (b) E
- (c) bbbabaaabbb => bbbaaabbb
- (d) bbababaaaa => baabaaaa => bbabaaaa
- (e) bbbbb
- (f) ababababa => aaababa => aaaaa => baaaa
- (g) aabbaaabbba => babbaaabbba
- (h) bababaaabb => aabaaabb => babaaabb

3

- (a) aaaa
- (b) E
- (c) bbbabaaabbb => babbaaabbb => baabaabbb => baaaabbb => baaaabb => baaaab => baaaa => aaaa
- (d) bbababaaaa => abbabaaaa => aabbaaaa => aaabaaa => aaaaaa
- (e) bbbbb => bbbb => bbb => b => E
- (f) ababababa => aabababa => aaababa => aaababa => aaaaba
- (g) aabbaaabbba => aaabaabbba => aaabaabab => aaaaabab => aaaaaab
- (h) bababaaabb => baabaaabb => baa
aaabb => baaaaab => baaaaa => aaaaa

4

- (a) aaaa => aaa => a => E
- (b) E

- (e) bbbbb
- (f) ababababa => aabbababa => aababbaba => aaabbababa => aaabbabba => aaabbabba => aaaabbbba => aaaabbbba => aaaabbabb => aaaaabbbb => aaaaabbbb => aaaaabbbb => aaaaabbbb => aaaaabbbb => aaaaabbbb => aaaaabbbba => aaaabbbba => aaaabbbba => aaaabbbba => aaaabbbba =>

5

- (a) aaaa => aaa => a => E
- (b) E

- (e) bbbbb => bbbb => bb => b
- (f) ababababa => babababa => bbababa => bababa => bbaba => bba => ba => b
- (g) aabbaaabbba => abbaaabbba => abbaabbba => ababbba => ababba => ababba => ababa => baba => bba => b
- (h) bababa
abb=>babababb=>bababab
b=>bababab=>babab=>babab=>bab
abb=>bab=>bab=>bab

6

- (a) aaaa => aaa => aa => b
- (b) E