

3.2)

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 b \$
 \$

$R(\text{root})$, $\text{cp}(R_a(\text{root})) = a$, $\text{cp}(R_b(\text{root})) = b$

=>



b a b a a b a a a a b \$
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 a a b a a a a a b \$
 a b a a a a a a b \$
 b a a a a a a a b \$
 a a a a b \$
 a a b \$
 a b \$
 b \$
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$R(a)$

a a a a \$
 b a a \$
 a b a \$
 a a a \$
 b a b \$
 a a \$
 a a \$
 a b \$
 a \$
 b \$
 \$

$R(b)$

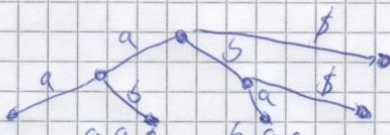
$\text{cp}(R_a(a)) = a$

$\text{cp}(R_b(a)) = b$

$\text{cp}(R_a(b)) = a$

$\text{cp}(R_b(b)) = \{\}$

=>



b a b a a b a a a a b \$
 a b a a b a a a a b \$
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 a a b a a a a a b \$
 a b a a a a a a b \$
 b a a a a a a a b \$
 a a a a b \$
 a a b \$
 a b \$
 b \$
 \$

$R(aa)$

a a a a \$
 b a a \$
 a b a \$
 a a a \$
 b a b \$
 a a \$
 a a \$
 a b \$
 a \$
 b \$
 \$

$R(ab)$

b a b a a b a a a a b \$
 a b a a b a a a a b \$
 b a a b a a a a b \$
 a a b a a a a a b \$
 a b a a a a a a b \$
 b a a a a a a a b \$
 a a a a b \$
 a a b \$
 a b \$
 b \$
 \$

$R(ba)$

$\text{cp}(R_a(aa)) = a$

$\text{cp}(R_b(aa)) = b$

$\text{cp}(R_a(ab)) = aa$

$\text{cp}(R_b(ab)) = \{\}$

$\text{cp}(R_a(ba)) = a$

$\text{cp}(R_b(ba)) = b a b a a a a a b $$

