

Datastructuren

www.liacs.nl/~hjh/dat/

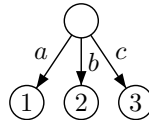
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najaar 2016

a b a b c b a b a b a a a a

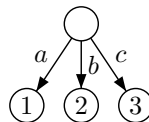
 w *c* dict? output new code



0	(end)
1	<i>a</i>
2	<i>b</i>
3	<i>c</i>

a b a b c b a b a b a a a

<i>w</i>	<i>c</i>	dict?	output	new code
	<i>a</i>	✓		

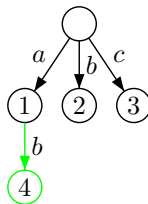


0	(end)
1	<i>a</i>
2	<i>b</i>
3	<i>c</i>

a b a b c b a b a b a a a a

1

<i>w</i>	<i>c</i>	dict?	output	new code
	<i>a</i>	✓		
<i>a</i>	<i>b</i>	×	1	4 ↦ <i>ab</i>



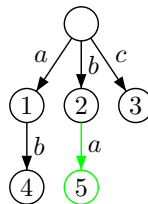
0	(end)
1	<i>a</i>
2	<i>b</i>
3	<i>c</i>
4	<i>ab</i>

a b a b c b a b a b a a a a

1 2

w c dict? output new code

b a × 2 $5 \mapsto ba$



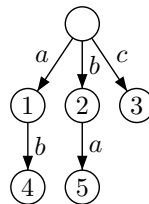
0	(end)
1	a
2	b
3	c
4	ab
5	ba

a b a b c b a b a b a a a a

1 2

 w c dict? output new code

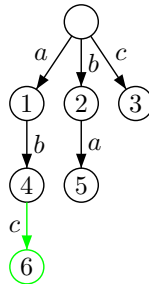
a b ✓



0	(end)
1	a
2	b
3	c
4	ab
5	ba

a b a b c b a b a b a a a a
 1 2 4
 w c dict? output new code

a	b	✓		
ab	c	×	4	$6 \mapsto abc$

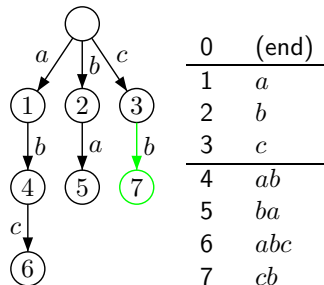


0	(end)
1	a
2	b
3	c
4	ab
5	ba
6	abc

a b a b c b a b a b a a a a
 1 2 4 3

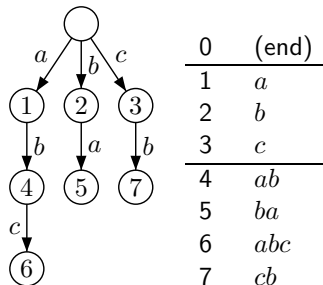
w c dict? output new code

c b \times 3 $7 \mapsto cb$



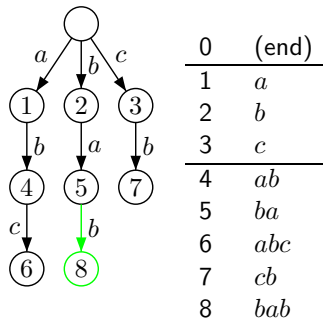
a b a b c b a b a a a a
 1 2 4 3
 w c dict? output new code

b a ✓



a b a b c b a b a b a a a a
 1 2 4 3 5
 w c dict? output new code

b a ✓
 ba b × 5 $8 \mapsto bab$

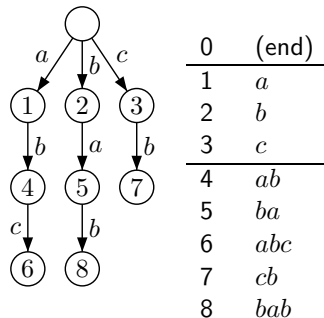


a b a b c b a b a b a a a a

1 2 4 3 5

w c dict? output new code

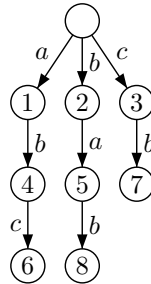
b a ✓



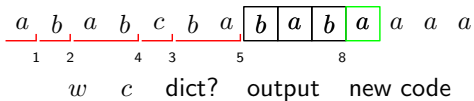
a b a b c b a b a a a a
 1 2 4 3 5 b a b

w c dict? output new code

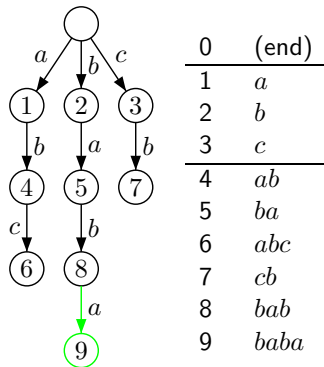
b a ✓
 ba b ✓



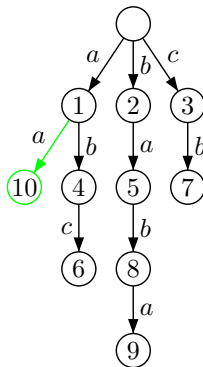
0	(end)
1	a
2	b
3	c
4	ab
5	ba
6	abc
7	cb
8	bab



b	a	✓		
ba	b	✓		
bab	a	×	8	$9 \mapsto baba$

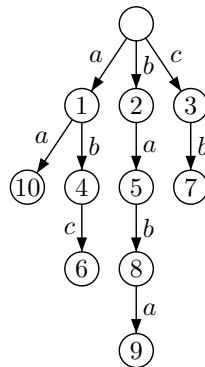
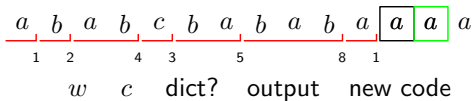


a b a b c b a b a b a a a a
 1 2 4 3 5 8 1
 w c dict? output new code



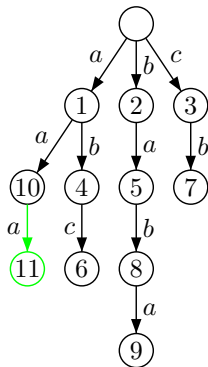
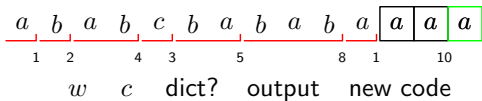
0	(end)
1	a
2	b
3	c
4	ab
5	ba
6	abc
7	cb
8	bab
9	$baba$
10	aa

a a \times 1 10 $\mapsto aa$



0	(end)
1	a
2	b
3	c
4	ab
5	ba
6	abc
7	cb
8	bab
9	$baba$
10	aa

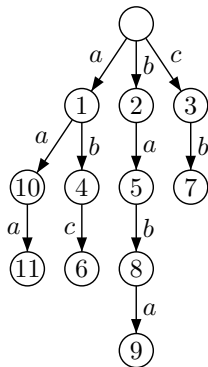
a a ✓



0	(end)
1	a
2	b
3	c
4	ab
5	ba
6	abc
7	cb
8	bab
9	$baba$
10	aa
11	aaa

a a ✓
 aa a × 10 11 \mapsto aaa

a b a b c b a b a b a a a a
 1 2 4 3 5 8 1 10 1
 dict? output new code



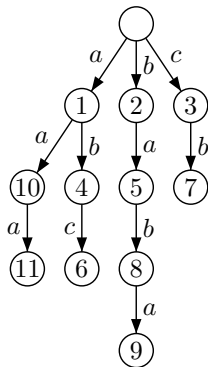
0	(end)
1	<i>a</i>
2	<i>b</i>
3	<i>c</i>
4	<i>ab</i>
5	<i>ba</i>
6	<i>abc</i>
7	<i>cb</i>
8	<i>bab</i>
9	<i>baba</i>
10	<i>aa</i>
11	<i>aaa</i>

a \perp

1

a b a b c b a b a b a a a a
 1 2 4 3 5 8 1 10 1

 w c dict? output new code



0	(end)
1	<i>a</i>
2	<i>b</i>
3	<i>c</i>
4	<i>ab</i>
5	<i>ba</i>
6	<i>abc</i>
7	<i>cb</i>
8	<i>bab</i>
9	<i>baba</i>
10	<i>aa</i>
11	<i>aaa</i>