

1

L277

S = a|l|a b|a π|a l a l|a b a π d|a

<0,0,a> <0,0,l> <2,1,b> <2,1,π> <6,3,l>
<8,4,d> <3,1,EOF>

L255 OUTPUT EITHER <DISTANCE, LENGTH> OR <0, CHAR>

SIMPLE TRANSF. FROM L277

<0,a> <0,b> <2,l> <0,b> <2,l> <0,π> <6,3> <0,l>
<8,4> <0,d> <3,1> <0,EOF>

L255 W. LONGEST MATCHES

<0,a> <0,l> <0,a> <0,b> <0,a> <0,π> <6,3> <8,5> <0,d> <0,a>
L277 WINDOW SIZE 4

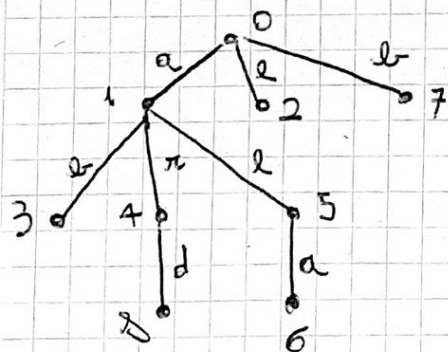
S = a|l|a b|a π|a l|a l a b|a π|d|a

<0,0,a> <0,0,b> <2,1,b> <2,1,π> <2,1,l>
<2,3,b> <2,1,π> <0,0,d> <3,1,EOF> BECAUSE OF THE WINDOW
↓
OVERLAP

L278

S = a|l|a b|a π|a l|a l a|b|a π d|a

DICT:



OUTPUT

<0,a> <0,l> <1,b>
<1,π> <1,l> <5,a>
<0,b> <4,d> <1,EOF>

② L277
 $S = c | a | \pi | b | a \pi | b a \pi a | b c |$

$\langle 0, 0, c \rangle \langle 0, 0, a \rangle \langle 0, 0, \pi \rangle \langle 0, 0, b \rangle$

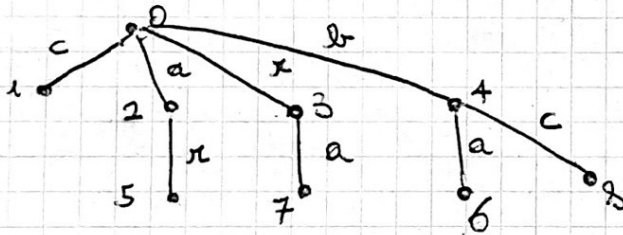
$\langle 3, 5, d \rangle \langle 4, 1, c \rangle \langle 0, 0, EOF \rangle$

↓
OVERLAP

L278

$S = c | a | \pi | b | a \pi | b a | \pi a | b c |$

DICT:



OUTPUT

$\langle 0, c \rangle \langle 0, a \rangle \langle 0, \pi \rangle$

$\langle 0, b \rangle \langle 2, \pi \rangle \langle 4, a \rangle$

$\langle 3, a \rangle \langle 4, c \rangle \langle 0, EOF \rangle$

③

L277

S = a | a b | c | a d | a b c a | d |

$\langle 0, 0, a \rangle \langle 1, 1, b \rangle \langle 0, 0, c \rangle \langle 3, 1, d \rangle$

$\langle 5, 4, a \rangle \langle 6, 1, EOF \rangle$

L277 WINDOW 4

S = a | a b | c | a d | a b | c | a a | d

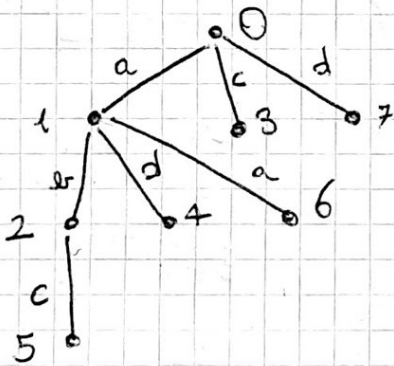
$\langle 0, 0, a \rangle \langle 1, 1, b \rangle \langle 0, 0, c \rangle \langle 3, 1, d \rangle \langle 2, 1, b \rangle$

$\langle 0, 0, c \rangle \langle 3, 1, a \rangle \langle 0, 0, d \rangle \langle 0, 0, EOF \rangle$

L278

S = a | a b | c | a d | a b c | a a | d |

DLT



or

$\langle 0, a \rangle$

$\langle 1, b \rangle$

$\langle 0, c \rangle$

$\langle 1, d \rangle$

$\langle 2, c \rangle$

$\langle 1, a \rangle$

$\langle 0, d \rangle$

$\langle 0, EOF \rangle$

LZW ENCODING

S = a a b c a d a b c a a d

CURR	NEXT	OUT	DICT
a	a	97	256 = aa
a	b	97	257 = ab
b	c	98	258 = bc
c	a	99	259 = ca
a	d	97	260 = ad
d	a	100	261 = da
ab	c	257	262 = abc
ca	a	259	263 = caa
ad	ca	260	"

④ LZW ENCODING

b a a c b a a b c b a

CURR	NEXT	OUT	DICT
b	a	98	256 = ba
a	a	97	257 = aa
a	c	97	258 = ac
c	b	99	259 = cb
ba	a	256	260 = baa
aa	b	257	261 = aab
b	c	98	262 = bc
cb	a	259	263 = cba
a	EOF	97	

DECODING

INPUT	OUTPUT	DICT
98	b	
97	a	256 = ba
97	a	257 = aa
99	c	258 = ac
256	ba	259 = cb
257	aa	260 = baa
98	b	261 = aab
259	cb	262 = bc
97	a	263 = cba

⑤ LZW

ENCODING

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

CURR	NEXT	OR	DICT
c	a	99	256 = ca
a	b	97	257 = ab
b	a	98	258 = ba
ab	bc	257	259 = abc
ca	ca	256	260 = caa
abc	c	259	261 = abcc
ca	EOF	256	

DECODING

INPUT	OUTPUT	DICT
99	c	
97	a	256 = ca
98	b	257 = ab
257	ab	258 = ba
256	ca	259 = abc
259	abc	260 = caa
256	ca	261 = abcc