Data Structure and Algorithm $\label{eq:Quiz #9} \text{Quiz } \#9$

Tuesday, June 4th, 2013

Name:	${f S}$ tudent ID :	
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Problem 1.

Please calculate the prefix function of pattern string abacababac, and try to use the pattern string to match the string ababacababacababacababacababacababacababaca.

1. Prefix Function

i	1	2	3	4	5	6	7	8	9	10
P[i]	a	b	a	c	a	b	a	b	a	c
$\pi[i]$										

2. Matching Process

Index	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Text	a	b	a	b	a	c	a	b	a	b	a	b	a	c	a	b	c	a	b	a
$\pi[i]$																				

Index	21	22	23	24	25	26	27	28	29	30	31	32	33
Text	c	a	b	a	b	a	c	a	b	a	b	a	c
$\pi[i]$													