

			ba abak baa ababa					
abab	aaabbb	aab	ba	ab	ab	aa		
ababaa	bb	baab	baa	ba	ba	a		
	,							
abab	aaa	bbb	aab	l	oa 📗	ab	ab	aa
ababaa	l	ob	baab	b	aa	ba	ba	a

a	baa
ab	aab

then f(I) would be the PCP instance

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

 start
 1
 #

 start 1
 1
 #

i i i+1 # i+1

i i+k i-k

i i + 1 i + 2 i + 3

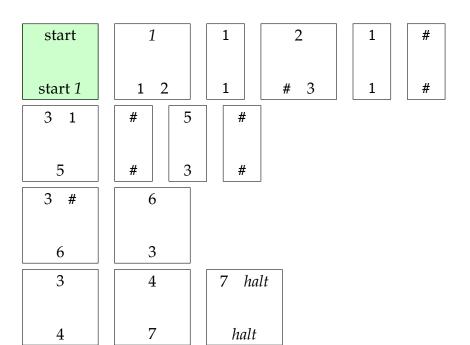
start	1	#	2 halt	1
start 1	1	#	halt	1 2

sta	rt	1	#	3 halt	1	2
star	rt 1	1	#	halt	1 2	# 3

 $1\#\#|1\#^5|1^3\#^3|1^2\#^4|1^3\#^4$

asdf

start	1	#	7 halt
start 1	1	#	halt
1	2		
1 2	# 3	3	
3	3	1	3 #
4	5		6
4	5		6
7	3		3



start

start 1

 start
 1

 start
 1

 start
 1

 start
 1

start	1	1	2
start 1	1 2	1	# 3

start	1	1	2	1	#
start 1	1 2	1	# 3	1	#

start	1		1	2		1	#	
start 1	1	2	1	#	3	1	#	
3	1	#	#	4	1	#	#	
# 4	1	#	#	3	3	#	#	
3	#	#	#					
# 4	#	#	#					
4 #	#	#	4	#	#	4	#	4 halt
4	#	#	4	Ł	#	4	1	halt

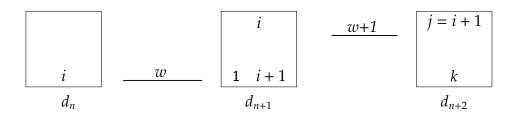
	?	k	
•••	k	N + 1	
	?	k	N+1 halt
	k	N + 1	halt

n

1 n+1

		i	w	j
i	w	j		k
d_n		d_{n+1}	,	d_{n+2}

i		j	<u> </u>	k
j	<u> </u>	k		
d_{n+1}		d_{n+2}	•	d_{n+3}



	i		<i>i</i> + 1	??	k
1	1+1	w+1	k		
	d_{n+1}	•	d_{n+2}		d_{n+3}

	i		<i>i</i> + 1	??	k
1	1+1	w+1	k		
	d_{n+1}	•	d_{n+2}		d_{n+3}

		i	<u>w+1</u>	j = i + 1
i	w	i + k		k
d_n		d_{n+1}		d_{n+2}

 i

i + 1

		i	w	j = i + 1
i	w	<i>i</i> + 1		k
d_n		d_{n+1}	•	d_{n+2}

 start
 1
 #

 start 1
 1
 #

i i i+1 # i+1

i i+k i-k

i	i 1	i #
<i>i</i> + 1	<i>i</i> + 2	<i>i</i> + 3

start	1		1	2	-	1	#	
start 1	1	2	1	#	3	1	#	
3	1	#	#	4	1	#	#	
# 4	1	#	#		3	#	#	
3	#	#	#					
# 4	#	#	#					
4 #	#	#	4	#	#	4	#	4 halt
4	#	#	4	1	#	4	1	halt

n

1 n+1

ı	4		.,
	n 1	n	#
	next(n+2)	next((n+3)

	#	1	x		у	
x	#	1	1 y	?	# z	

	#	1	x	#	1	1	y
x	#	1	1 <i>y</i>	#	1	1	# z

	#	1	x		y #	
x	#	1	1 y	?	z	

	#	1	х #		y	
x	#	1	y	?	1 z	