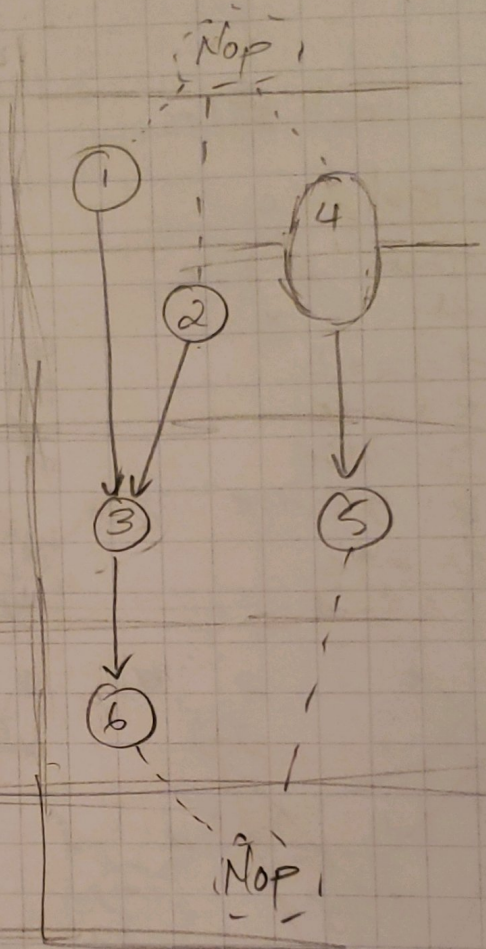
List_r scheduling.
hls_test1.c

Node	Time
1	2
2	2
3	3
4	2
5	4
6	4

Time		*	÷	+/-	?
	Ready:	4	-	1,2	-
1	Slack:	1		1,1	
	Schedule:	4		1	
		-	-	2	-
2				0	
				2	
		-	-	5	3
3				1	0
				5	3
		-	-	-	6
4					0
					6



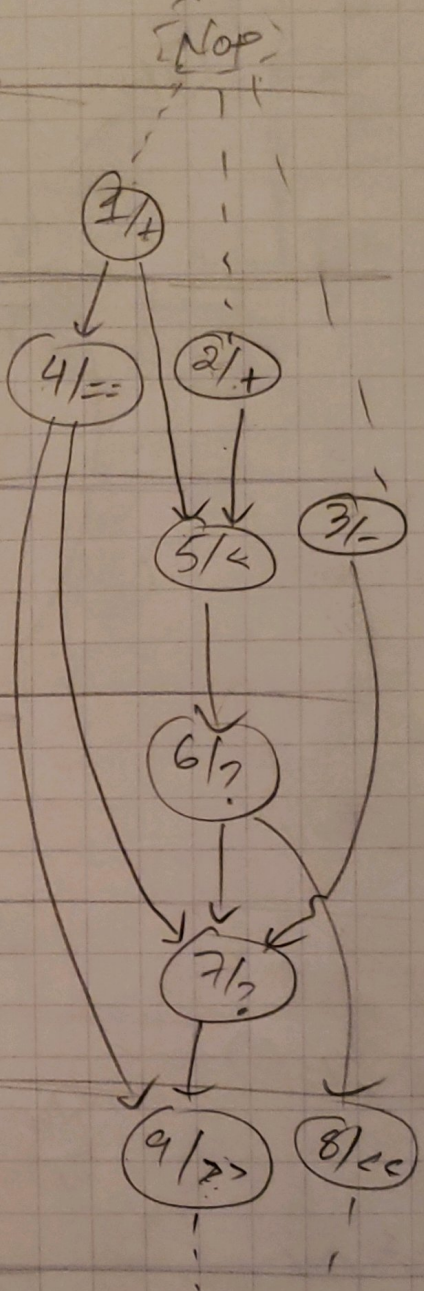
Required Resources

*	1
+/-	1
÷/%	1
?	1

List_8

hls-test2.c

Time		*	÷	+/-	?
	Ready:	-	-	1,2,3	-
1	Slack:			1,1,3	
	Schedule:			1	
		-	-	2,3	4
2				0,2	2
				2	4
		-	-	3	5
3				1	0
				3	5
		-	-	-	6
4					0
					6
		-	-	-	7,8
5					0,1
					7
					8,9
6					0,0
					8,0



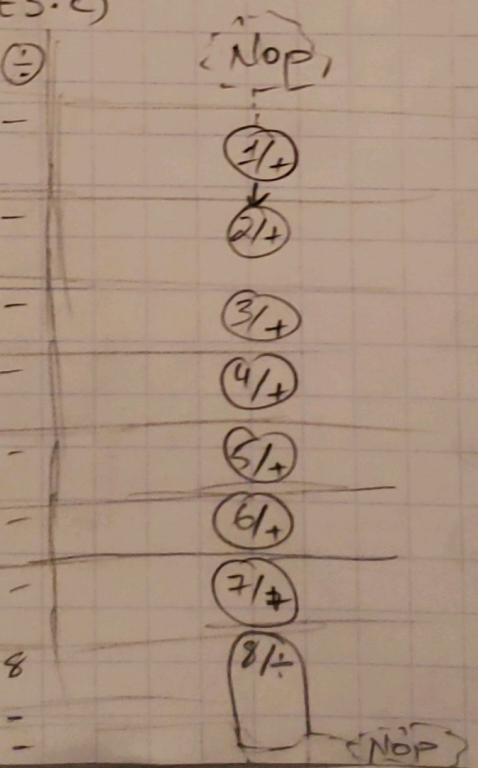
Node	Time
1	2
2	2
3	4
4	4
5	3
6	4
7	5
8	6
9	6

required resources

*	1
+/-	1
÷/%	1
?	2

List_s (hls_test3.c)

Time		+	÷
1	Ready:	1	–
	Slack:	0	
	Schedule:	1	
		2	–
2		2	
3		3	–
		3	
4		4	–
		4	
5		5	–
		5	
6		6	–
		6	
7		7	–
		7	
8		–	8
9		–	–
10		–	–



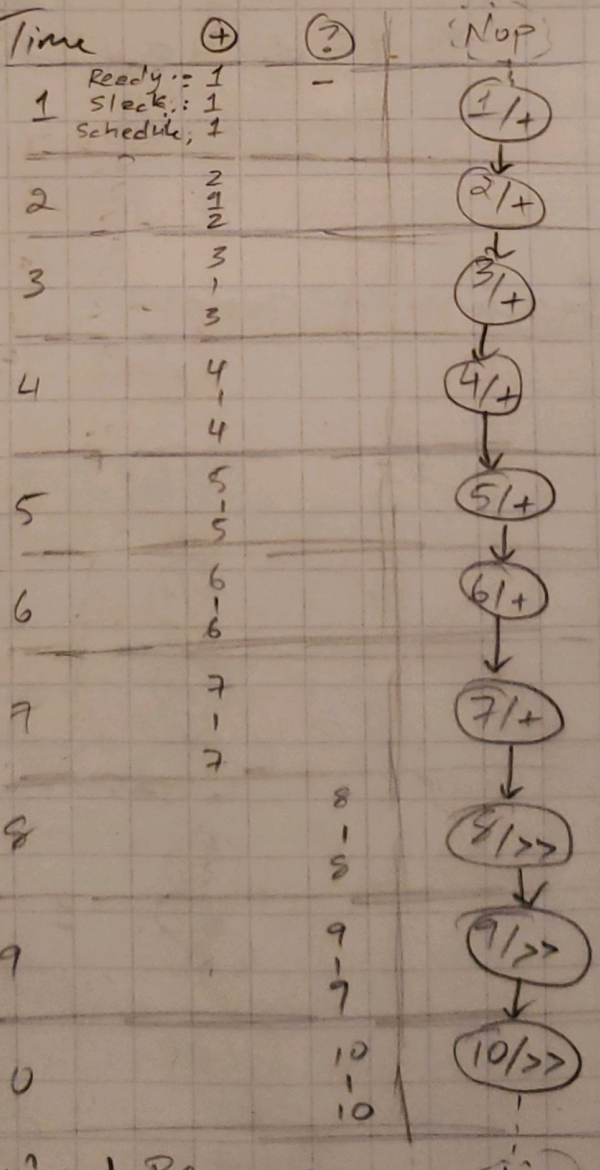
Required Resources

+ 1 ; ÷ 1

Node	Time
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8

Node	Time
1	2
2	3
3	4
⋮	⋮
8	9
9	10
10	11

List_r (hls_test5.c)



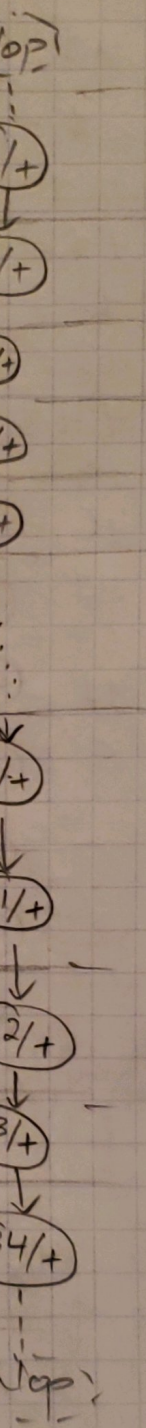
Required Resources

+ 1 ; ? 1

hls_tesb.c

ListR (l=34)

Time		+	
	Ready:	1	
1	Slack:	0	
	Schedule:	1	
2		2 0 2	
3		3 0 3	
4		4 0 4	
5		5 0 5	
⋮		⋮	
30		30 0 30	
31		31 0 31	
32		32 0 32	
33		33 0 33	
34		34 0 34	



Node	Time
1	1
2	2
3	3
4	4
5	5
⋮	⋮
30	30
31	31
32	32
33	33
34	34

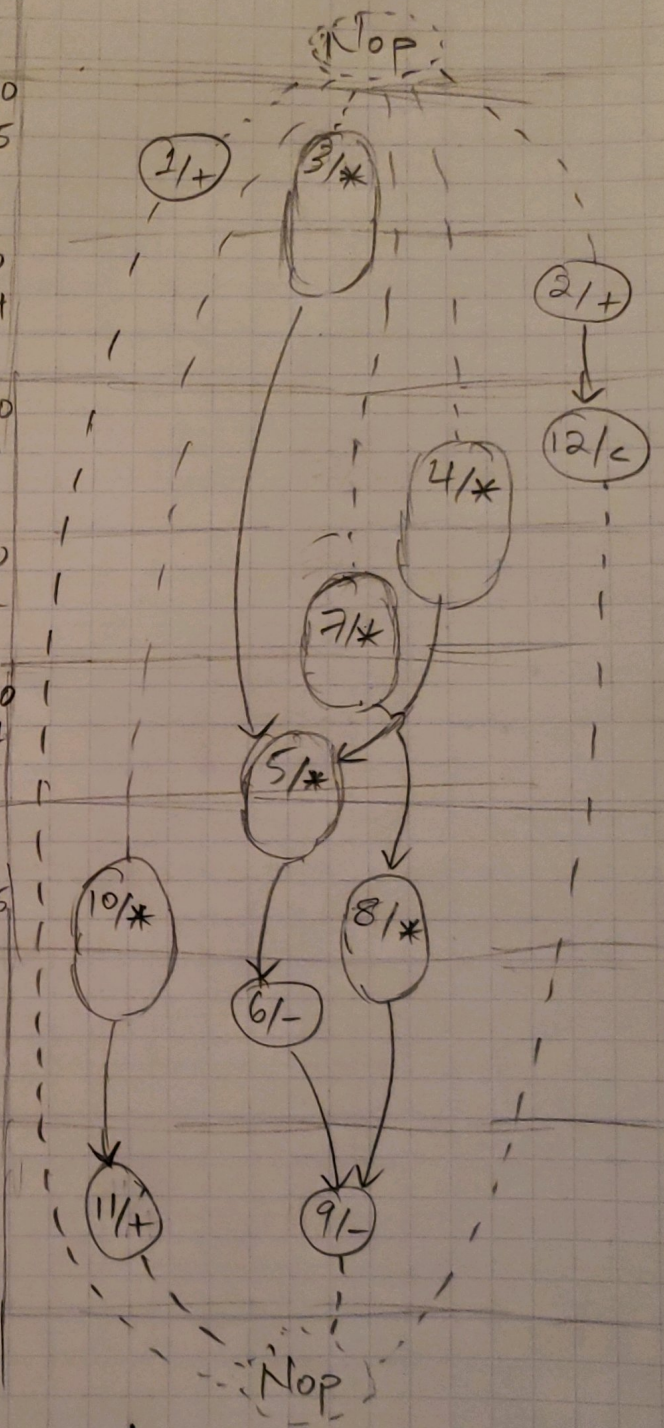
Required resources for latency = 34 cycles

+ 1

list_r (hls_test7.c)
(l = 8 cycles)

Node	Time
1	8
2	7
3	3
4	3
5	5
6	7
7	4
8	6
9	8
10	6
11	8
12	8

Time		(+)	(?)	(*)
	Ready:	1,2	–	3,4,7,10
1	Slack:	7,6	–	2,2,3,5
	Schedule:	1	–	3
		2	–	4,7,10
2		5	–	1,2,4
		2	–	3
		–	12	4,7,10
3		–	5	0,1,3
		–	12	4
		–	–	5,7,10
4		–	–	1,0,2
		–	–	7,4
		–	–	5,8,10
5		–	–	0,1,1
		–	–	5
		–	–	8,10,
6		–	–	0,0,
		–	–	8,10,5
		6	–	–
7		0	–	–
		6	–	10,7
		9,11	–	–
8		0,0	–	–
		9,11	–	–



Resources Required

(*) 3

(+/-) 2

(?) 1.