

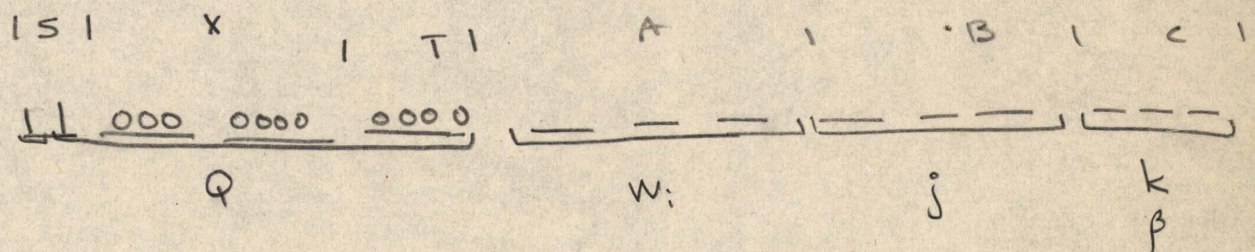
## LAD

Input	100	0	$W_i$	/	/
Input & ADA	300	0	$W_i$	j	k
Transfer	100	0	/	/	$\beta$

Routine will stop will

$\swarrow$  5  $W_{n+1}$  / xxx

shown displayed - Pushing ~~st~~ Run  
 will allow routine to load into  
 $W_i$  or transfer to  $\beta$  as  
 determined by user



$Q = 1000$  - first or last word

$A = 000$  - last word - transfer to  $\beta$

$A \neq 000$  - first word - put next word into  $W_i$

$S = 1$  Adapt following  $k$  words if they  
 pertain to  $j$  words

WISCoding for LAD

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FLOW ORDER		X	TYPE	A	B	C	#	HEXADECIMAL					
#	#							X	T	A	B	C	
				[ ] Load [ ]	[ ]	[ ]		100	0	W:	/	/	
			FIRST WORD	[ Load & Adopt ]	[ ]	[ ]		300	0	W:	j	k	
			LAST WORD	[ ]	[ ]	[ ]		100	0	/	/	$\beta$	
				[ ]	[ ]	[ ]		/	0	001	021	001	
			I	$W_i$ [ ]	$W_i$ [ ]	[ ]	001	/	0	359	359	002	
Plant W:		2	E	$W_i$ [ $W_i$ ]	[ <sup>1,12</sup> ]	→ Deliver [ ]		2	019	1	359	01c	00b
Is bit 50 present?	100		TN	$W_i$ [ ]	-0 [ ]	[ ]		3	100	e	359	3ff	00e
Set $W_k=000$	100		A	Deliver [ ]	+0 [ ]	→ $W_k$ [ ]		4	100	8	00b	3ff	022
	1		E	0 [ ]	[ ]	→ $W_k$ [ ]		5	001	1	3ff	01c	022
or Q	100		A	0 [ ]	+0 [ ]	→ Q [ ]		6	100	8	3ff	3ff	358
			I	$W_i$ [ ]	$W_i$ [ ]	[ ]		7	/	0	359	359	008
Plant Q	37		E	$W_i$ [ ]	[ <sup>1,13</sup> ]	→ Q [ ]		8	025	1	359	01d	358
Is $W_k \geq W_n$ ?	100		TN	[ ]	[ ]	[ ]		9	100	e	00b	022	354
Is Q = 1000?	100		TZ	[ ]	[ ]	[ ]		a	100	c	358	3fc	019
Deliver $W_n$	100		A	$W_i$ [ ]	+0 [ ]	→ $W_n$ [ ]		b	100	8	359	3ff	( $W_i$ )
Index $W_n$	100		A	[ ]	[ ]	[ ]		c	100	8	00b	3fd	00b
			TU	[ ]	[ ]	[ ]		d	/	5	/	/	007
Clear $W_k$	100		A	[ ]	[ ]	[ ]		e	100	8	3ff	3ff	022
Setup LO	100		A	const [ ]	+0 [ ]	→ LO [ ]		f	100	8	021	3ff	35f
Plant k	1		E	$W_i$ [ k ]	[ <sup>1,12</sup> ]	→ $W_k$ [ ]		010	001	1	359	01c	022
Plant j } in LO	13		E	$W_i$ [ j ]	[ <sup>37,12</sup> ]	→ LO [ ]		011	00d	1	359	25c	35f
Plant $W_i$ } in LO	25		E	$W_i$ [ $W_i$ ]	[ <sup>25,12</sup> ]	→ LO [ ]		2	019	1	359	19c	35f
up $W_k$	100		A	Deliver [ ]	+k [ ]	→ $W_k$ [ ]		3	100	8	00b	022	022
			TU	[ ]	[ ]	[ ]		4	/	5	<del>00b</del> 354	002	368

~~018~~  
01e  
01e

~~018~~  
018  
018

→ AOA  
AOA

→ APA

Plant W:  
Is bit 50 present?  
Set  $W_k=000$

or Q  
Plant Q  
Is  $W_k \geq W_n$ ?  
Is Q = 1000?  
Deliver  $W_n$   
Index  $W_n$

Clear  $W_k$   
Setup LO  
Plant k  
Plant j } in LO  
Plant  $W_i$  } in LO  
up  $W_k$

WISCoding for LAD

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FLOW ORDER		X	TYPE	A	B	C	#	HEXADECIMAL				
#	#							X	T	A	B	C
		13	E	[ ]	[ <sup>25,12</sup> ] ]	[ ]	015	00d	1	018	19c	35f
		13	E	[ ]	[ <sup>1,12</sup> ] ]	[ ]	6	00d	1	018	01c	35b
		13	E	[ ]	[ <sup>1,20</sup> ] ]	[ ]	7	00d	1	014	410	357
			TU	[ ]	[ ]	[ ]	8	/	5	/	359	006
				[ ]	[ ]	[ ]						
		100	A	0 [ ] + 0	[ ]	→ LO [ ]	9	100	8	3ff	3ff	35f
		25	E	W <sub>i</sub> [ A ]	[ <sup>1,12</sup> ] ]	→ LO [ ]	2	019	1	359	01c	35f
		1	E	Deliver [ W <sub>n+1</sub> ]	[ <sup>25,12</sup> ] ]	[ ]	b	001	1	00b	19c	020
		1	E	W <sub>i</sub> [ β ]	[ <sup>1,12</sup> ] ]	[ ]	c	001	1	359	01c	020
		100	TZ	A [ ] - 0	[ ]	[ ]	d	100	c	35f	3ff	01f
			TU	[ ]	[ ]	[ ]	e	/	5	/	/	002
		100	H	[ ]	[ ]	[ ]	f	100	6	/	/	020
			TU	[ ]	[ ]	[ (β) ]	b20	/	5 (W <sub>n+1</sub> )	/	(β)	
				[ ]	[ ]	[ ]						
				constant	[ ]	[ ]	1	0(j)	(W <sub>i</sub> )	002	015	
				[ ]	[ ]	[ ]						
				OPSTB	W <sub>k</sub> [ ]	[ ]	2					
				[ ]	[ ]	[ ]						
				[ ]	[ ]	[ ]						
				[ ]	[ ]	[ ]						
				[ ]	[ ]	[ ]						
				[ ]	[ ]	[ ]						
				[ ]	[ ]	[ ]						
				[ ]	[ ]	[ ]						

Change orders in ADA

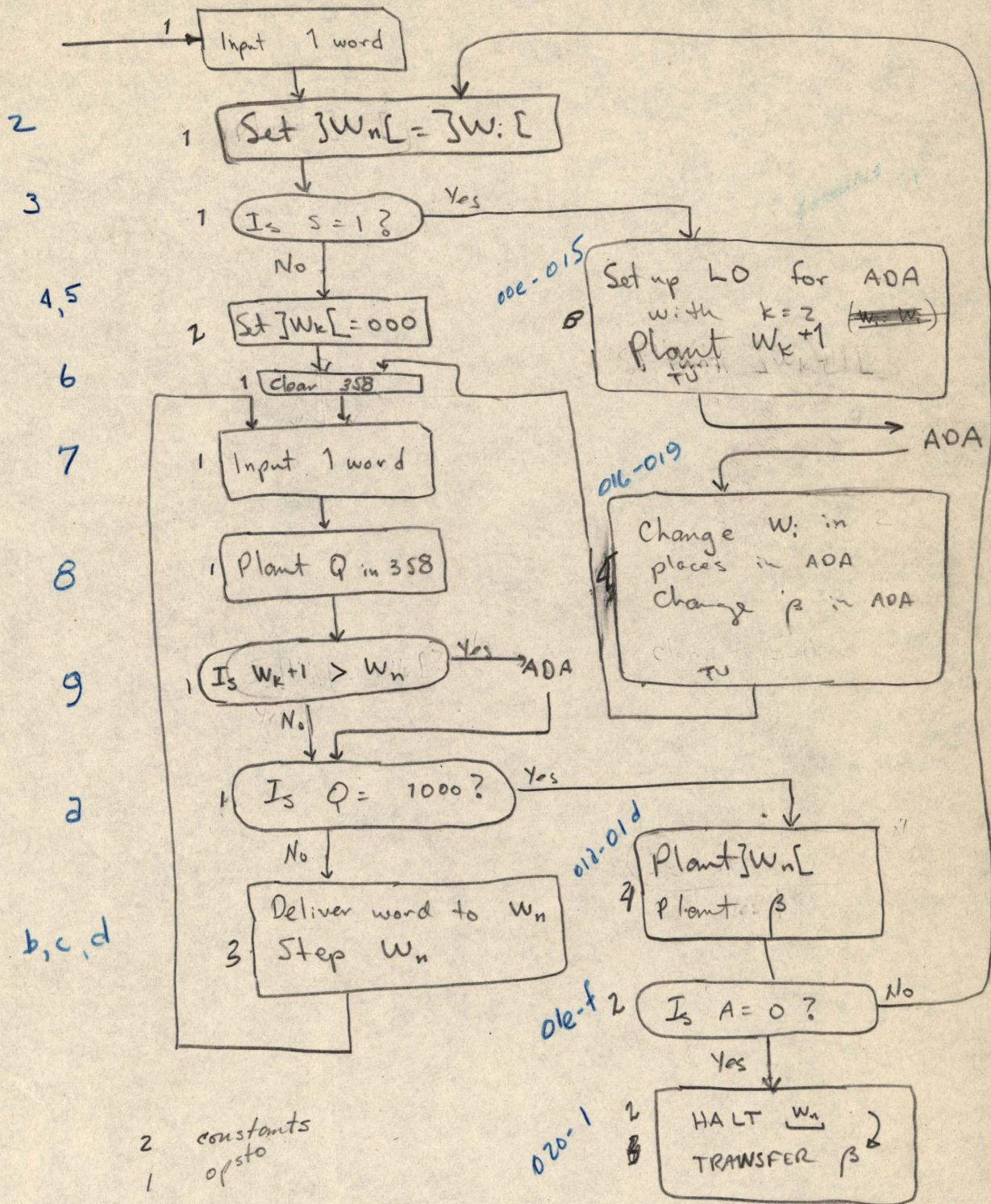
Clear opsto  
Plant A  
Plant W<sub>n+1</sub>  
Plant β  
Is A=0?

00d 1 018  
3  
00d 1 014  
410 357

← 002

→ β

001



b, c, d

2 constants  
1 opsto

12

11

5

3

.05.02

LAD

What program?

0000001021001,  
0000359359002,  
019135901c00b,  
100e3593ff00e,  
100800b3ff022,  
00113ff01c022,  
10083ff3ff358,  
0000359359008,  
025135901d358,  
100e00b022354,  
100e3583fc019,  
10083593ff000,  
100800b3fd00b,  
0005000000007,  
10083ff3ff022,  
10080213f035f,  
001135901c022,  
00d135925c35f,  
019135919c35f,  
100800b022022,  
000535400a3b8,  
00d101819c354,  
00d101801c356,  
00d1014410357,  
0005000359006,  
10083ff3ff35f,  
019135901c35f,  
001100b19c020,  
001135901c020,  
100e35f3ff01f,  
0005000000002,  
1006000000020,  
0005000000000,  
0001000001015,