```
adr
                data
                                           hush
               ; push
 daddr:
                                                           adder:
                              dent:
                                                                                                        data:
                                                                          s t od
 1 odd
               bush
                                            push
                             lodd
                                                                                       hal t
                                                           cal1
                                                                                                                                                              100125
  start:
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start: 10 pu 10 ca	st ha daddr: da data: 25		dcnt: 5 rslt: 0		1

	8	1024																◆ SP
PC	AC	SP				- 1	- 1	- 1	- 1	- 1	- 1	- 1	- 1	- 1	- 1	- 1	- 1	- 1
start: lodd daddr: push	lodd dent:		ಡ	stod rslt:		data: 25		75	100		rs1t: 0							1024

8 8 1023						◆ SP
PC AC SP	- 1	- 1 - 1 - 1	- 1	- 1 - 1 - 1 - 1	1 - 1	8 - 1
start: lodd daddr: push lodd dcnt: push call adder: stod rslt: halt	data: 25	75 100 125	dcnt: 5 rs1t: 0		T - T	1024

5 1023		
PC AC SP		- 1 - 1 - 8 • SP
start: lodd daddr: push lodd dcnt: push call adder: stod rslt: halt	data: 25 50 75 100 125 dcnt: 5 rslt: 0 -1 -1	-1

Δ D D	P 1022											◆ SP		
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start: lodd daddr: push lodd dent:	<pre>push call adder: stod rslt: halt</pre>	daddr: data: data: 25		75	100		rs1t: 0	- 1		· -	- 1			1024

2 20 1051		♣
PC AC SP		- 1 - 1 - 1 5 5
lodd daddr: push lodd dcnt: push call adder: stod rslt: halt	data: 25 50 75 100 125 5	
0 start: 1 2 3 4 5 6	 / daddr: 8 data: 9 10 11 12 13 dent: 14 relt: 	

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5 1021		2
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PC AC SP	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	-1 -1 5 5 8
lodl 1 stod mycnt: lodl 2 pshi addd myc1: stod myptr: lodd mycnt: subd myc1:	jzer done: stod mycnt: lodd myptr: pshi addd myc1: stod myptr: pop addl 0 insp 1	push jump 100p: pop retn halt 0 0
20 adder: 21 22 23 24 25 25 27 27	28 30 33 33 34 35 36	38 39 done: 40 41 42 mycnt: 43 myptr: 44 myc1:

5 5 1021		♠ SP SP+1
PC AC SP		5 8 8
stod mycnt: lodl 2 pshi addd myc1: stod myptr: lodd myc1: subd myc1:		pop ret n hal t 0 0
adder:	28 29 29 30 30 10 31 32 34 36 36 37 pu	done: mycnt: myptr: myptr:

22	1021																	SP ◆					
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1 odl 1 st od mycnt:						jzer done:		lodd myptr:					addl 0			j ump loop:	dod	retn		√		$1 \qquad 1024$	
20 adder: 21	23	24	•	26 loop:	27	28	29	30	31	32	33	34	35	36	37		39 done:	40		mycnt	Шý	m	

23 8 1021		SP 0+2
PC AC SP		◆ SP SP+2
PC AC SP		- 1 5 8 8
1 mycnt: 2 myc1: myc1: mypt r: myc1: myc1:	done: my c nt: my pt r: my c 1: my pt r:	100p.
stod stod lodl pshi addd stod lodd subd	j zer stod lodd pshi addd stod pop addl insp	pop retn halt 0 \$\ldot\$
adder:		done: mycnt: myptr: myptr:
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	24	8	1020					0 start: lodd daddr:	hsnd		push	t call adder:	hal t	daddr:		9 50 10		12		rs1t:	15 -1	17 -1	18 -1	19 -1
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adder:				_	10	5 1 0 0 p:		28				- \							done:				mypt r:	

	daddr: dcnt: adder: rslt:
9 1020	O start: lodd 1
PC AC SP	↓
	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
mycnt: 2 myc1: myc1: mypt r: mycnt: mycnt:	done: my cnt: my pt r: my pt r: my pt r: 1 00 1 1 00p: 5
lodl stod lodl pshi addd stod lodd	jzer stod lodd pshi addd stod pop insp push jump pop retn halt 0 ◆
20 adder: 21 22 23 24 25 26 100p: 27	28 29 30 31 32 33 34 35 36 37 40 41 42 mycnt: 43 myptr: 44 myc1:

								start: lodd daddr:		lodd dent:		stod rslt:		daddr: 8	25	50 75	100	125		rslt: 0		- 1	-1	
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1	mycnt:	2		myc1:				done:	mycnt:	myptr:		my c 1:			0	1		1 oop:	ı			5	6	1024
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adder:						1 oop:		28											done:					msc1:

							lodd daddr:	hash	lodd dent:	push				بر	o v	100	25		-	1		- -	T
27	5	1020					start:			ъ <u>г</u>			daddr:				•	dcnt:	14 rs1t: 0	16	17 -	10	- 61
																	do 1						
PC	AC	SP					- 1	-	1 -		- 1		1 -	- 1	- 1	- 1	3.5	2.3	5	5	8	-	- 1
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20 adder: 21	22	23	24	25	26 1 oop:	27	28	29	30	31	32	33	34	35	36	37		39 done:	40		42 mycnt:		44 myc1:

						lodd daddr:	pus h	lodd dent:	push				10 .6	~ \r	100	25		_			-	
28	4	1020				start:			. Pol			daddr:					dent:	: 1 S I	16	17	2 0	- 6I
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20 adder: 1 od1 21 st od		23 pshi		25 stod	1 oop:	28 j zer				32 addd						,	done:			42 mycnt: 0 \(\psi\	myptr:	44 myc1: 1

2.9		4	1020					0 start: lodd daddr:			3 push	stod		daddr:		9 50 75		,	dent:	4 rslt: 0	6 -1	7 -1	.8 -1	9 -1
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7) 	A C	C D						<u> </u>				Τ	_					▶		<u> </u>	T	\neg	\neg
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adder:						1 oop:													done:					
20	7	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44

	dd daddr: sh dd dcnt: sh 11 adder: od rs1t: 1t 5	
30 4 1020	0 start: 1 lodd 1	19 -1
PC AC SP	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	- 1
stod mycnt: lodl 2 pshi addd myc1: stod myptr: lodd mycnt: subd myc1:	jzer done: stod mycnt: lodd myptr: pshi addd myc1: stod myptr: pop addl 0 insp 1 push jump 10op: pop retn halt 0 → 4	
20 adder: 21 22 24 25 25 27 27	28 29 30 31 32 33 34 35 36 37 40 41 42 my cn t :	

	daddr: dcnt: adder: rslt:
31 9 1020	SP 13 dent: 10dd 1 push 2 10dd 3 push 4 call 5 stod 6 halt 7 daddr: 8 8 25 9 50 10 75 11 100 125 SP 13 dent: 5 14 rslt: 0 15 -1 16 -1 17 -1
PC SP SP	↓
	1 1 1 1 1 1 1 1 1 1
stod stod lodl pshi addd stod lodd subd	jzer stod lodd pshi addd stod pop insp push jump pop retn halt 0 ◆
20 adder: 21 22 24 25 25 27 27	28 29 30 31 32 33 34 35 36 37 39 40 41 41 42 my cnt: 43 my pt r: 44 my c1:

	d daddr: h dcnt: h adder: d rslt:
9 1019	SP 11 10dd 10dd 10dd 11 10dd 10dd 10dd 10
PC SP SP	↓
	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
1 od1 stod 1 od1 pshi addd stod 1 odd	jzer stod lodd pshi addd stod pop insp push jump pop retn halt 0 ◆ ◆
20 adder: 21 22 24 25 25 25 27	28 29 30 31 32 33 34 35 36 37 39 40 41 41 42 mycnt: 43 myptr: 43 myptr:

	daddr: d dcnt: adder: rslt:	
33 10 1019	start: lodd push lodd push call stod halt daddr: 8 50 75	100 125 dcnt: 5 rslt: 0 -1 -1 -1
33		SP 11 12 13 14 15 16 17 18
PC AC SP		↓
		50 25 5 5 8 8
nnycnt: 2 myc1: myc1: mypt r: mycnt: myc1:	done: mycnt: myptr: myc1: myptr:	1 oop:
		push jump pop retn halt 0 \\ \psi 1
20 adder: 21 22 23 24 25 25 26 100p:		done: mycnt: myptr: myptr:

34	10	1019				start:	1 push	pnot				daddr:			11	12 125 13 dent: 5	rs1t:	15 -1 16 -1	17 -1	16 - 1 19 - 1
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PC	AC	Y.					- 1		I	- 1	1	4	- 1	- 1	50	25	5	5	8	- 1
lodl 1 stod mycnt:	lodi 2 pshi	addd myc1:		1 odd mycnt:			stod mycnt:	lodd myptr:			stod myptr:	dod		insp 1	•	j ump 100p:	retn		↑ ↑ ↑ ↑	
20 adder: 21	23	24	25	26 100p:	27	28	29	30 21	51	3.5	33	34	35	36	37	38 30 done.				45 myptr: 44 myc1:

	: lodd daddr: push lodd dcnt: push call adder: stod rslt: halt : 8	50 75 100 125 5 0 -1 -1 -1
35 50 1020	start	dent: rs1t:
	0176460186	A SP 112 116 117 118 118 118 118 118 118 118 118 118
PC AC SP	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	- 1 50 5 5 8 8
1 1 d mycnt: i d myc1: d myptr: d myptr: d myc1: d myc1:		p 1 h 100p: n t t 1024
	jzer stod lodd pshi addd stod pop	insp push jump pop retn halt 0 \\ \\ \\ \\ \
adder:		done: mycnt: myptr: myptr:

36	<u>75</u> ← 50 + 25	1020					0 start: lodd daddr:	ų snd		push	5 st od rslt:	hal t	daddr:		9 50			13 dent:	14 rsit: 0 15 - 1	16 -1	17 -1	19 -1
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1 odl 1	lodi 2	pshi	addd myc1:	stod myptr:			jzer done:				addd myc1:	stod myptr:		addl 0	insp 1	hsnd	j ump 100p:	pop	retn		4 4 0	
20 adder:	22	23	24	25	26 1 oop:	27	28	29	30	31	32	33	34	35	36	37		39 done:	40		42 mycnt:	

	37	7.5	1021					start:	u snd			call		, च च च	uauur:		9 50 10 75		,		SP 14 rslt:	16 -1	17 -1	18 - 1	- 1
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1 odl 1		1 od1 2	pshi	addd myc1:		1 odd mycnt:		j zer done:				addd mycl:		stod mypur:			insp 1		j ump loop:	dod	retn	ha] t		10	$1 \hspace{1cm} 1024 \hspace{1cm} \lfloor$
20 adder:	21	22	23	24	25	26 1 oop:	27	28	29	30	31	32	2.0	33	24	35	36	37	38	39 done:		41	42 mycnt:		44 myc1:

38	75	1020				start:			5 pusn 4 call adder.	stod		daddr:						15 -1 16 -1	17 -1 18 -1	19 -1
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20 adder: 1c 21 st				1 oop:												• • •	done.		mycnt:	my c1:

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1 od1 1		1 od1 2	pshi	addd myc1:		1 odd mycnt:		jzer done:				addd mvc1:			addl 0	inen 1	7 7	pus n	pop roop.	retn	halt	4 1	
20 adder:	21	22	23	24	25	26 1 oop:	27	28	29	30	31	32	33	34	35	36	0.0	3 /	39 done:				45 mypt1: 44 myc1:

		lodd daddr: push		stod rsit: halt 8		0 2		
4	1020	start:	3 push 4 call	daddr:	8 25 9 50 10 75	11 12 13 dent:	rslt:	17 -1 18 -1 19 -1
						◆ SP		
PC AC		- 1	- 1	- 1	- 1	50	5 5	8 - 1
1 1 d mycnt: 1 2 i	<pre>d myc1: d myptr: d mycnt: d myc1:</pre>		my pur mvc 1:		1 0 p 1	h p 100p:		• 4 • 10 1024
1 odl stod 1 odl pshi	addd stod lodd subd	j zer stod	l odd ps hi addd	stod	addl i ns p	push jump pop	ret ret hal	T T
20 adder: 21 22 23	24 25 26 100p: 27	28	31 32	8 8 8 4	35 36	37 38 39 done:		42 mycnt: 43 myptr: 44 myc1:

							lodd daddr:		lodd dent:	push	stod rslt:		8	25	50 75	100	125	n (0 - 1	-1-	1 - 1	·
28	3	1020	0				start:			m ∠			daddr:					13 dent:	14 rsit: 15	16	17	19
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20 adder: 21	22	23	24	25	26 1 oop:	27	28	29	30	31	32	33	34	35	36	37		39 done:	40			44 myc1:

		Τ					lodd daddr:		lodd dent:	push	tod rslt:			55	٥ ز	100	25		_	. —		1 1
29	3	1020					start:				4 ν. Ο α		daddr:					dent:	rs1t:	16	17	19
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1 od1 stod	1 od1	pshi	addd	stod	1 ode	s ubd	jzer	s t 00	1 ode	pshi	addd	s t od	dod	addl	insl	bns	j um	dod	retı	hal t	1)
20 adder: 21	22	23	24	25	26 1 oop:	27	28	29	30	31	32	33	34	35	36	37		39 done:	40			45 mypur: 44 myc1:

							lodd daddr:		lodd dent:	push			8	25	50 75	100	125	vo «	0	- 		- - -
30	3	1020					0 start:			w <			daddr:						14 rslt:	15 16	17	19
(7)	7)																1					
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	1 2	į	d myc1:					mycnt			d myc1:			1 0	p 1	h	m 100p:		n		~ ~ ~	
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20 adder: 21	22	23	24	25	26 1 oop:	27	28	29	30	31	32	33	34	35	36	37	38	39 done:	40			43 mypur: 44 myc1:

31	10	1020				0 start: lodd daddr:	ų snd		3 push		hal t	daddr:				SP 13 dent: 5	rslt:	15 -1	17 -1	18 -1	19 -1
<u>ل</u>	<u></u> ت															Ψ		_			
PC	AC	d'S	5			- 1	1	1 -	- 1	- 1	1	1 -	- 1	- 1	50	75	\cdot	v) o	\$	- 1
lodl 1 stod mycnt:	1 od1 2	pshi	addd myc1:	1 odd mycnt:	subd myc1:	j zer done:	mycnt			addd myc1:			addl 0	insp 1		jump loop:	oop retn	nalt		10	1024
20 adder: 21				1 oop:												• • • • • • • • • • • • • • • • • • • •	done.		mycnt:	myptr:	

	d daddr: h d dcnt: h adder: t t
32 10 1019	o start: lodd 1
PC AC SP	-1 -1 -1 -1 -1 -1 -1 -75 75 -1 -1
1 odl 1 st od mycnt: 1 odl 2 ps hi addd myc1: st od mypt r: 1 odd mycnt: subd myc1:	jzer done: stod mycnt: lodd myptr: pshi addd myc1: stod myptr: pop addl 0 insp 1 push jump 10op: pop retn halt 0 → 3 0 → 10 1024
20 adder: 21 22 23 24 25 26 1 oop: 27	28 30 31 32 33 34 35 36 37 38 40 41 42 mycnt: 43 myptr: 44 myc1:

	daddr: dcnt: adder: rslt:
33 111 1019	SP 11 1000 115 115 116 116 116 116 116 116 116 116
PC AC SP	↓
	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
stod stod lodl pshi addd stod lodd subd	jzer stod lodd pshi addd stod pop insp push jump pop retn halt 0 ◆
20 adder: 21 22 24 25 25 27 27	28 29 30 31 32 33 34 35 36 37 38 39 done: 40 41 42 mycnt: 43 myptr: 43 myptr:

34		push 1 odd push		9 50 10 75 4 SP 11 100 12 125 13 dcnt: 5 14 rs1t: 0	15 -1 16 -1 17 -1 18 -1
PC AC			- 1	- 1 75 75 5	5 8 - 1
<pre>lod1 1 st od mycnt: lod1 2 pshi</pre>				insp 1 push jump loop: pop retn	halt 0 \$\ldots 3 \\ 0 \$\ldots 11 \\ 1 1024
20 adder: 21 22 23	24 25 26 100p: 27 28	29 30 31	32 33 34 35	36 37 38 39 done: 40	41 42 mycnt: 43 myptr: 44 myc1:

	35	75	1020					0 start: lodd daddr:	h snd		3 push	stod	hal t	daddr:	255	9 50 10 75		12	dent:	14 rslt: 0	16 -1	17 -1	18 -1	19 - 1
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36			P 1020					0 start: lodd daddr:	hsnd		push	the call adder:	hal t	daddr:			11 100	12	dent:	14 rs1t: 0	16 -1	17 -1	18 -1	1- 61
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20 adder:	21	22	23	24	25	26 1 oop:	27	28	29	30	31	32	33	34	35	36	37	38	39 done:				43 myptr: 44 myc1:

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	ad daddr: sh dd dcnt: sh l1 adder: od rs1t:	C 10
28 0 1020	1 push 2 lodd 3 push 4 call 5 stod 6 halt 7 daddr: 8 8 25	dent: rslt:
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