

inputs						outputs											
s2	s1	s0	start	gt	is_empty	s2+	s1+	s0+	sel_reg	ld	sel_cmp	sel_sub	push	pop	en	done	
0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	
0	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0	1	
0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	1	
0	0	0	0	1	1	0	0	0	1	1	0	0	0	0	0	1	
0	0	0	1	0	0	0	0	1	1	1	0	0	0	0	0	1	
0	0	0	1	0	1	0	0	1	1	1	0	0	0	0	0	1	
0	0	0	1	1	0	0	0	1	1	1	0	0	0	0	0	1	
0	0	0	1	1	1	0	0	1	1	1	0	0	0	0	0	1	
0	0	1	0	0	0	1	1	1	0	0	1	0	0	0	0	0	
0	0	1	0	0	1	1	1	1	0	0	1	0	0	0	0	0	
0	0	1	0	1	0	0	1	0	0	0	1	0	0	0	0	0	
0	0	1	0	1	1	0	1	0	0	0	1	0	0	0	0	0	
0	0	1	1	0	0	1	1	1	0	0	1	0	0	0	0	0	
0	0	1	1	0	1	1	1	1	0	0	1	0	0	0	0	0	
0	0	1	1	1	0	0	1	0	0	0	1	0	0	0	0	0	
0	0	1	1	1	1	0	1	0	0	0	1	0	0	0	0	0	
0	1	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	
0	1	0	0	0	1	0	1	1	0	0	0	0	1	0	0	0	
0	1	0	0	1	0	0	1	1	0	0	0	0	1	0	0	0	
0	1	0	0	1	1	0	1	1	0	0	0	0	1	0	0	0	
0	1	0	1	0	0	0	1	1	0	0	0	0	1	0	0	0	
0	1	0	1	0	1	0	1	1	0	0	0	0	1	0	0	0	
0	1	0	1	1	0	0	1	1	0	0	0	0	1	0	0	0	
0	1	0	1	1	1	0	1	1	0	0	0	0	1	0	0	0	
0	1	1	0	0	0	1	0	0	0	0	0	1	1	0	0	0	
0	1	1	0	0	1	1	0	0	0	0	0	1	1	0	0	0	
0	1	1	0	1	0	1	0	0	0	0	0	1	1	0	0	0	
0	1	1	0	1	1	1	0	0	0	0	0	1	1	0	0	0	
0	1	1	1	0	0	1	0	0	0	0	0	1	1	0	0	0	
0	1	1	1	0	1	1	0	0	0	0	0	1	1	0	0	0	
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1	0	1	0	1	1	1	1	0	0	1	0	0	0	0	0	0	
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1	0	1	1	0	1	1	1	0	0	1	0	0	0	0	0	0	
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1	0	1	1	1	1	1	1	0	0	1	0	0	0	0	0	0	
1	1	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	
1	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	
1	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	
1	1	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	
1	1	0	1	0	0	1	1	1	0	0	0	0	0	0	0	0	
1	1	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	
1	1	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	
1	1	0	1	1	1	0	1	0	0	0	0	0	0	0	0	0	
1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	1	0	
1	1	1	0	0	1	0	0	0	0	0	0	0	0	0	1	0	
1	1	1	0	1	0	1	0	0	0	0	0	0	0	0	1	0	
1	1	1	0	1	1	0	0	0	0	0	0	0	0	0	1	0	
1	1	1	1	0	0	1	0	0	0	0	0	0	0	0	1	0	
1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	
1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	1	0	
1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	1	0	