

push_swap with linked-lists				PUSH							
beginning											
				prev	node	next			prev	node	next
		**src	**a	NULL	1	b		**b	NULL	44	55
				a	2	c			44	55	NULL
				b	3	NULL					
1st											
assuming "source" is stack "a", we go to example a "push b", but it's the same logic to "push a"											
node_to_push = *src											
				prev	node	next			prev	node	next
	node_to_push	**src	**a	NULL	1	b	**dst	**b	NULL	44	55
				1	2	3			44	55	NULL
				2	3	NULL					
2nd											
src = (*src)->next											
				prev	node	next			prev	node	next
	node_to_push			NULL	1	2	**dst	**b	NULL	44	55
		**src	**a	1	2	3			44	55	NULL
				2	3	NULL					
3rd											
if (*src) *src->prev = NULL											
				prev	node	next			prev	node	next
	node_to_push			NULL	1	2	**dst	**b	NULL	44	55
		**src	**a	NULL	2	3			44	55	NULL
				2	3	NULL					
4th - case 1											
if don't have *dst											
node_to_push->next = NULL											
*dst = node_to_push											
				prev	node	next					
**dst	node_to_push			NULL	1	NULL					
		**src	**a	NULL	2	3					
				2	3	NULL					
4th (RESULT special case) return;											
				prev	node	next			prev	node	next
		**src	**a	NULL	2	3	**dst	**b	NULL	1	NULL
				2	3	NULL					

		5th										
		before 5th (case 2)										
					prev	node	next			prev	node	next
		node_to_push			NULL	1	2	**dst	**b	NULL	44	55
			**src	**a	NULL	2	3			44	55	NULL
					2	3	NULL					
		5th (else, or have *dst) case 2										
		(*dst)->prev = node_to_push			1							
		node_to_push->next = *dst			44							
					prev	node	next			prev	node	next
		node_to_push			with list	1	44	**dst	**b	1	44	55
			**src	**a	NULL	2	3			44	55	NULL
					2	3	NULL					
		6th										
		*dst = node_to_push			**dst							
					prev	node	next			prev	node	next
**dst		node_to_push			NULL	1	44		**b	1	44	55
			**src	**a	NULL	2	3			44	55	NULL
					2	3	NULL					
		RESULT										
					prev	node	next			prev	node	next
			**src	**a	NULL	2	3	**dst	**b	NULL	1	44
					2	3	NULL			1	44	55
										44	55	NULL