Consider a Turing machine that has start state 0 and the following transitions:

State	Symbol	δ (State, Symbol)
0	#	(1, #, R)
1	а	(1, a, R)
1	b	(1, b, R)
1	#	(2, #, L)
2	а	(3, #, R)
2	b	(5, #, R)
2	#	(2, #, Y)
3	#	(4, a, R)
4	а	(4, a, R)
4	b	(4, b, R)
4	#	(7, a, L)
5	#	(6, b, R)
6	а	(6, a, R)
6	b	(6, b, R)
6	#	(7, b, L)
7	а	(7, a, L)
7	b	(7, b, L)
7	#	(2, #, L)

Trace the execution of this Turing machine with the string #ab#### as input.