The Theory of Computation
Bernard M.E. Moret
Addison-Wesley-Longman, 1998

Solution Manual
Chapter 4, Problem 5.19

The measures are fairly straightforward, since both machines have a completely uniform transition mechanism and a clear notion of storage. Each transition will be one step and count for one unit of time. The space used will be the largest queue size (or the largest combined stack size) used at any stage during the computation. Because our two machines can increase their use of storage by at most one cell at each step, they respect the standard relationship between space and time.