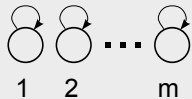
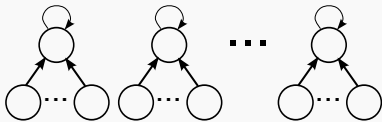


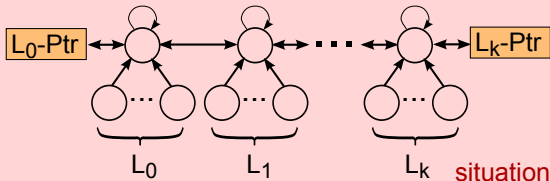
situation A



a) perform at most $(m-1)$ union operations
such that there are $(k+1)$ trees



b) link $(k+1)$ root nodes to each other
and set pointers L_0 -Ptr and L_k -Ptr



situation B