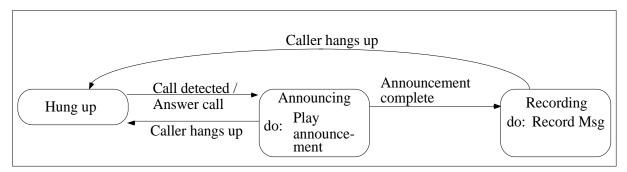HW1

Consider the Telephone Answering Machine (TAM) shown in the diagram below. The state transition diagram will be your starting point. Translate (i.e., transform) the TAM specification as it is presented here into a Z specification. This first diagram only gives the top level transitions. The second diagram is a refinement of the first to add more details. Use the second diagram as the basis for your answer.

Thus, the TAM above is activated on the first ring, whereas the state diagram below only answers after five rings. If the telephone is answered before five rings, the machine should do nothing (except to allow <u>Talking</u>). Be careful to distinguish between calls where the callee answers before the fifth ring and a call that rings five times.