Q. If a Shell instruction (9) appears in a program, do we tell the printer to spool the contents?

=> All shell dumps will directly be displayed on screen, no matter whether it is from the shell instruction or it is from the shell commands. The simulate computer, memory, printer are all for user programs only.

=> As indicated in the handout, the original shell instruction handling does not require any change. You only need to handle “9 2” and “9 3”, no other dumps at the instruction level. Also, you just let the simulated CPU do the printing, no need to give it to the shell thread.

=> Shell thread should handle all potential dump commands from the user keyboard input, including 2, 3, 4, 5, and 6. For 1, shell needs to further prompt to the user to input the other parameters.