1. (4 points) The diagram below shows a memory array containing 16 words of 4 bits each. The values shown in each memory cell denote the bit stored in that location. Suppose we did a read operation with address 11. Show the data value that is returned by writing the bits by the output pins at the bottom of the diagram.
2. (6 points) The simulation output below is from the basic processor running a program. Several parts of the output have been blanked out. Fill in the five blanks.