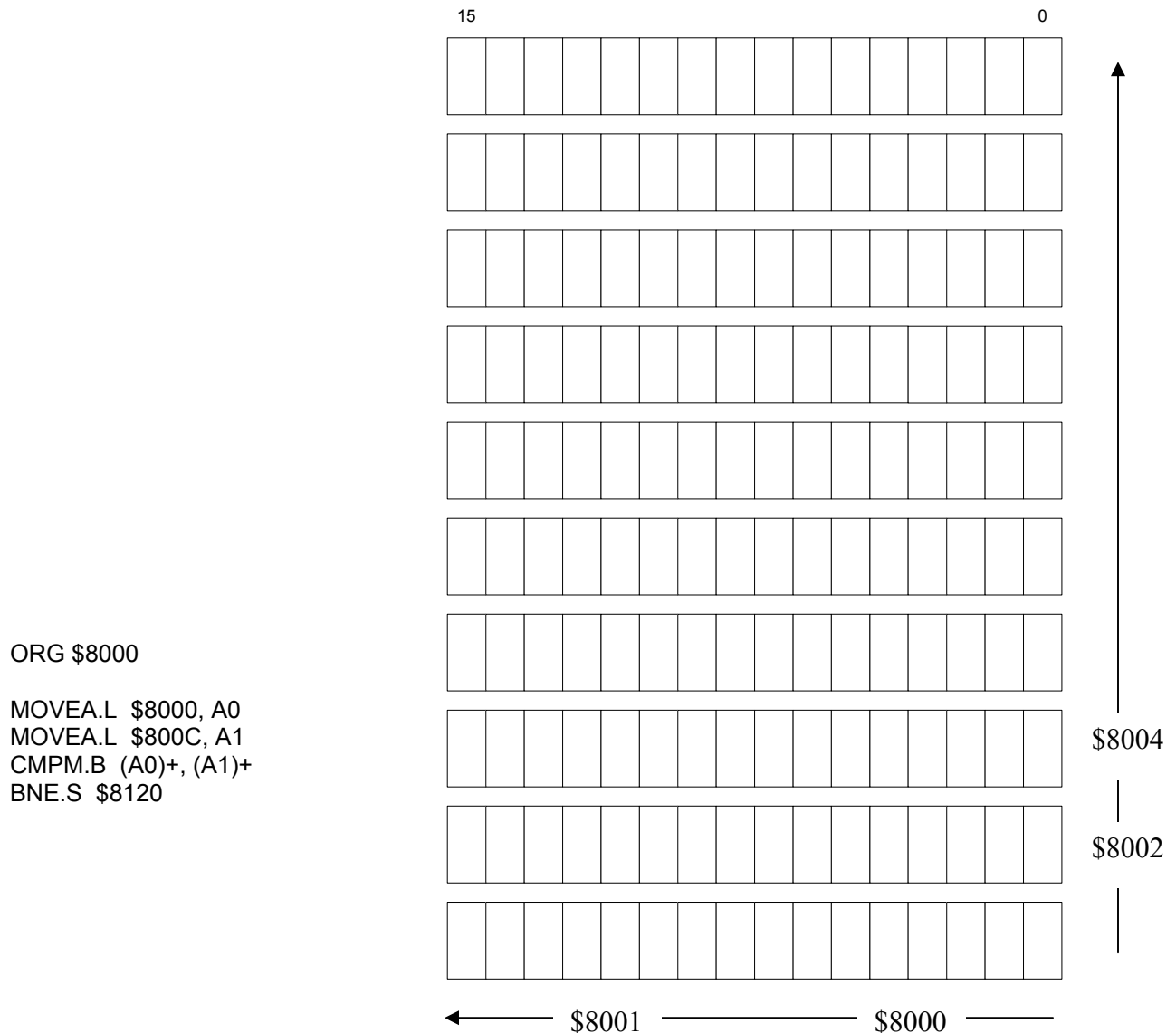


Problem 3: Instruction Decoding: We have the following instructions. Decode and “assemble” them into their corresponding machine code word sequences by indicating the bit patterns, and load them into their appropriate sequence. Use the attached Instruction tables at the back of the exam for reference.



NOTE: When using WISM68K, the ordering of the memory bytes in the display window is OPPOSITE of the way it is actually defined in the 68000 architecture. The memory display window in WISM naturally displays information in left-to-right fashion, which is how we read it in English. However, the way the bits are ordered is from right-to-left (i.e. LSB to MSB).

Here, the bits are ordered right-to-left. Just keep that in mind as you write in the values, since you will have seen them in the reverse order in the WISM display window.