1. Recall that, in denotational semantics, the state is a triple <mem, i, o>.
   (a) Which component(s) of the state are changed by a read instruction?
      Answer: i, mem
   (b) Which component(s) of the state are changed by a write instruction?
      Answer: o (only)
   (c) Which component(s) of the state are changed by an assignment?
      Answer: mem

2. What is the denotational semantics of the following program, where the initial input stream contains only the integer z?
   
   read(n);
   i := n+1;
   write(i);

   Hint: it is a very short answer!
   Answer: <z+1>. Also acceptable: z + 1, although technically the answer is a sequence.