(9) > virtual machine code \_\_\_\_\_ > assembly \_\_\_\_ (78) (10,11)

Dealing w/ labels + variables in Hack assembler?

- Pre-populate symbol table u/ built-in symbols (SCREEN, KBD, RO, ...)
- 1st pass:
  - (LABEL) store in symbol table w/ cur inshr #.
  - @ name store name in a list/set of names. add it to - anything else - increment instr counter, add to 1.2+ of histor.
- Now So through set of names.
  - If name already in symbol table, ignore.
  - Otherwise, assign it the next available memory address + add it to the symbol table.
- 2nd Pass:

translak each instruction translak A-instructions by looking up in symbol table.