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**Started on** Thursday, 16 March 2023, 4:06 AM

**State** Finished

**Completed on** Thursday, 16 March 2023, 4:08 AM

**Time taken** 2 mins 18 secs

**Marks** 7.50/8.00

**Grade** 9.38 out of 10.00 (93.75%)

Question **1**

Correct

Mark 1.00 out of 1.00

Match each commandType to its format:

A_COMMAND	@Xxx	✓
C_COMMAND	dest=comp;jump	✓
L_COMMAND	(Xxx)	✓

The correct answer is: A\_COMMAND → @Xxx, C\_COMMAND → dest=comp;jump, L\_COMMAND → (Xxx)

Question **2**

Correct

Mark 1.00 out of 1.00

There are three types of symbols in the Hack language:

Predefined symbols	special memory locations	✓
Labels	destinations of goto commands	✓
Variables	variable names	✓

The correct answer is: Predefined symbols → special memory locations, Labels → destinations of goto commands, Variables → variable names

Question **3**

Partially correct

Mark 0.50 out of 1.00

In the assembly process of a two-pass assembler:

- |                        |   |   |
|------------------------|---|---|
| during the first pass  | the assembler initialize the symbol table with all the predefined symbols.          | ✗ |
| during the second pass | the assembler translate the program, using the symbol table for symbols resolution. | ✓ |

The correct answer is: during the first pass → the assembler construct a symbol table., during the second pass → the assembler translate the program, using the symbol table for symbols resolution.

Question **4**

Correct

Mark 2.00 out of 2.00

In the Hack machine language, the ability to use a command like @label before the label was actually declared in the program is thanks to the

Select one:

- ☐ a. fact that the order of HDL statements is insignificant.
- ☒ b. two-pass assembly process. ✓
- ☐ c. subsequent VM translation process.
- ☐ d. multi-purpose use of the A register.
- ☐ e. fact that the program counter feeds directly from the A register.

The correct answer is: two-pass assembly process.

Question **5**

Correct

Mark 2.00 out of 2.00

During the second pass of the assembly process, if a symbol is not found in the symbol table, then it clearly represents a new ...

Answer:

variable

✓

The correct answer is: variable

Question **6**

Correct

Mark 1.00 out of 1.00

During the first pass of the assembly process you should use a counter.  
This counter should be incremented by 1 whenever a C-command,  
an A-command or an L-command is encountered.

Select one:

- ☐ True
- ☒ False ✓

The correct answer is 'False'.

[◀ Learning Journal Unit 7](#)[Chapter 6: Assembler \(Nisan and Schocken\) - Direct Download ►](#)