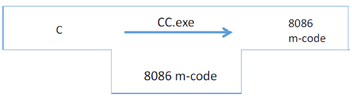
Started on	Thursday, 13 July 2023, 14:05
State	Finished
Completed on	Thursday, 13 July 2023, 14:14
Time taken	8 mins 46 secs
Grade	**11** out of 12 (**92**%)

Question **1**
Incorrect
Mark 0 out of 1
Flag question

What does the following T-diagram represent?

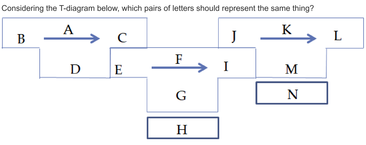


Select one:
- Nothing, there is an error in the diagram
- The executable version of a C compiler called CC
- Source code of a high-level translator written in C
- The compilation process by a C compiler called CC ✗

The correct answer is: The executable version of a C compiler called CC

Question **2**
Correct
Mark 2 out of 2
Flag question

Considering the T-diagram below, which pairs of letters should represent the same thing?



Select one:
- (C and E); (G and H); (M and N); (I and J)
- (C and E); (G and H); (K and N); (B and J); (I and M)
- (D and E); (G and H); (M and N); (B and J); (C and L) ✓
- (C and E); (F and H); (K and N); (I and J)

The correct answer is: (D and E); (G and H); (M and N); (B and J); (C and L)

Question **3**
Correct
Mark 1 out of 1
Flag question

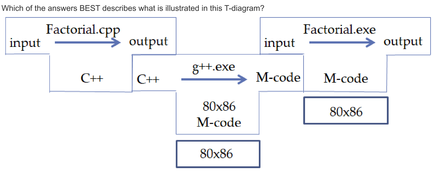
Which of the following statements regarding the source and target languages of a compiler is true:

Select one:
- Source language is typically a high-level language and the target language is typically a high-level language.
- Source language is typically a low-level language and the target language is typically a high-level language.
- Source language is typically a high-level language and the target language is typically a low-level language. ✓
- Source language is typically a low-level language and the target language is typically a low-level language.

The correct answer is: Source language is typically a high-level language and the target language is typically a low-level language.

Question **4**
Correct
Mark 2 out of 2
Flag question

Which of the answers BEST describes what is illustrated in this T-diagram?



Select one:
- The T-diagram doesn't actually show anything as it has been constructed incorrectly
- How the factorial program is compiled and then executed ✓
- How the factorial program is executed
- How the g++ compiler works

The correct answer is: How the factorial program is compiled and then executed

Question **5**
Correct
Mark 2 out of 2
Flag question

Which of the following features of programming languages is not a desirable one for programmers:

Select one:
- Readable
- Portable
- Easy to learn
- Orthogonal ✓

The correct answer is: Orthogonal

Question **6**
Correct
Mark 1 out of 1
Flag question

According to the lecture 1, what is the hand-in procedure for practicals?

Select one:
- Normally entire prac must be submitted on the day before the next practical session (normally Wednesday) ✓
- Part of the prac to be submitted by 5pm on the practical afternoon, and the rest to be submitted on the next practical afternoon (normally Thursday)
- Entire prac must be submitted by 2pm on the next practical afternoon (normally Thursday)
- Entire prac must be submitted by 5pm on the same practical afternoon (normally Thursday)

The correct answer is: Normally entire prac must be submitted on the day before the next practical session (normally Wednesday)

Question **7**
Correct
Mark 1 out of 1
Flag question

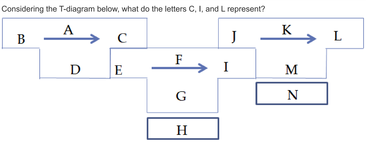
What is a self-compiling compiler?

Select one:
- a. A compiler that does not need any interaction from the user
- b. A compiler that can compile its own source code
- c. A compiler that can take many different source languages and compile these
- d. A compiler that compiles a source language that is the same as the language in which the compiler has been written ✓
- e. A compiler that does not generate machine code

The correct answers are: A compiler that can compile its own source code, A compiler that compiles a source language that is the same as the language in which the compiler has been written

Question **8**
Correct
Mark 1 out of 1
Flag question

Considering the T-diagram below, what do the letters C, I, and L represent?



Select one:
- Machine architectures on which each program will run
- The source language for the input
- The name of the program depicted in the T-diagram
- The language of the code for the respective user or systems program
- Target languages for the programs specified in the respective T-diagram ✓

The correct answer is: Target languages for the programs specified in the respective T-diagram

Question **9**
Correct
Mark 1 out of 1
Flag question

Which of the following statements regarding static and dynamic semantics is true:

Select one:
- Both static and dynamic semantics are checked at runtime
- Static semantics is checked at compile-time, while dynamic semantics can only be checked at runtime ✓
- Static semantics is checked at runtime, while dynamic semantics can only be checked at compile-time
- Both static and dynamic semantics are checked at compile-time

The correct answer is: Static semantics is checked at compile-time, while dynamic semantics can only be checked at runtime

Finish review

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