19/10/2020 TP3 - Test

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 Commencé le
 lundi 19 octobre 2020, 15:42

 État
 Terminé

 Terminé le
 lundi 19 octobre 2020, 15:59

 Temps mis
 17 min 39 s

 Note
 8,00 sur 10,00 (80%)

Question **1**

Correct

Note de 1,00 sur 1,00 A compiler is composed of three parts, in which order are they executed?

Veuillez choisir une réponse :

- a. Back-end, Front-end, Middle-end
- b. Front-end, Middle-end, Backward-end
- c. Front-end, Middle-end, Back-end

Votre réponse est correcte.

La réponse correcte est : Front-end, Middle-end, Back-end

Question **2**

Incorrect

Note de 0,00 sur 1,00 What means regex?

Veuillez choisir une réponse :

- a. Regexp
- b. Rectangular expression
- c. Regular impression X
- d. Regular expression

Votre réponse est incorrecte.

La réponse correcte est : Regular expression

Question 3

Correct

Note de 1,00 sur 1,00 What means $(x)\{0,4\}$ in a regex?

Veuillez choisir une réponse :

- a. Capture anything that has a value between 0 and 4.
- b. Capture anything that has a length between 0 and 4.
- o. Capture consecutive list of 0 and 4 x, excluding empty set.
- d. Capture consecutive list of 0 and 4 x, including empty set.

Votre réponse est correcte.

La réponse correcte est : Capture consecutive list of 0 and 4 x, including empty set.

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Question **4**

Correct

Note de 1,00 sur 1,00 What is "Constant propagation"?

Veuillez choisir une réponse :

- a. A mechanism to remove constants.
- b. An optimization to transform all expressions into constant ones.
- c. An optimization to compute at compile time.

Votre réponse est correcte.

La réponse correcte est : An optimization to compute at compile time.

Question **5**

Correct

Note de 1,00 sur 1,00 Why is it interesting to remove unused variables and to do it in the optimization stage?

Veuillez choisir une réponse :

- ullet a. This will also remove the related instructions, and thus improve performance. ullet
- b. This will also remove the related instructions, and make the compilation front end much faster.
- c. This will reduce the compiler work.

Votre réponse est correcte.

La réponse correcte est : This will also remove the related instructions, and thus improve performance.

Question 6

Correct

Note de 1,00 sur 1,00 Why is "register allocation" a hard problem?

Veuillez choisir une réponse :

- a. Because there are too many registers.
- b. Because some registers are faster than some others.
- c. Because the number of registers is limited.

Votre réponse est correcte.

La réponse correcte est : Because the number of registers is limited.

Question **7**

Incorrect

Note de 0,00 sur 1,00 How many instructions are needed (at least) to have the following code to work:

int i = 10;

int j = i*i;

// Later use j

Veuillez choisir une réponse :

- a. 2
- b. 1 X
- c. 0 (j is known at compile time)

Votre réponse est incorrecte.

La réponse correcte est : 0 (j is known at compile time)

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Question **8**Correct

Note de 1,00 sur 1,00 What is the difference between a compiler and an interpreter?

Veuillez choisir une réponse :

- a. A compiler returns the results and an interpreter interprets the source code
- b. There is no difference between a compiler and an interpreter
- c. A compiler transforms from one language to another and the interpreter transforms a source code into results ✓
- d. A compiler transforms a source code into an interpreter that transforms a source code into results

Votre réponse est correcte.

La réponse correcte est : A compiler transforms from one language to another and the interpreter transforms a source code into results

Question **9**

Correct

Note de 1,00 sur 1,00 What is a dynamic library?

Veuillez choisir une réponse :

- a. A library that can change its content during execution
- b. A library that is found and used during execution
- c. A library that has been written dynamically

Votre réponse est correcte.

La réponse correcte est : A library that is found and used during execution

Question **10**

Correct

Note de 1,00 sur 1,00 What is a grammar and why we need it in compilation?

Veuillez choisir une réponse :

- a. A grammar is a set of regular expressions and allows to know if the compiler speaks a good language
- b. A grammar is a set of rules to define the syntax of a language and thus the compiler needs it to ensure the source code respect the language ✔
- c. A grammar is a set of rules that the compiler used in the lexical analysis to ensure the source code is correct.

Votre réponse est correcte.

La réponse correcte est : A grammar is a set of rules to define the syntax of a language and thus the compiler needs it to ensure the source code respect the language

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Aller à...

Subject >