

Part 1 of 1 -

Question 1 of 10

Given the following code in C++,

```
int x[10];  
x[10] = 10;
```

C++ lets you write to an element outside the array. Based on this design, which criteria of C++ is negative?

- ☐ A. Cost
- ☐ B. Readability
- ☒ C. Reliability
- ☐ D. Writability

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Question 2 of 10

In Algol, there is no reserved word, so there may be a valid if statement like: if if = then then Based on this design, which criteria is negative?

- ☒ A. Readability
- ☐ B. Cost
- ☐ C. Reliability
- ☐ D. Writability

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1.0 Points

Although being statically type checking, Java performs dynamic type checking. For example, Java is able to prevent an access to an element outside an array such as

```
int x[10], y;  
y = 12;  
x[y] = 12;
```

which criteria is negative by this design?

- ☐ A. Writability
- ☐ B. Reliability
- ☐ C. Readability
- ☒ D. Cost

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Question 4 of 10

Given the following code that contains an syntax error at the second line:

```
cout << 120;  
x = y + ; // syntax error
```

If the value 120 is printed out before the error message is provied, which translator is used?

- ☐ A. Just-In-Time Compiler
- ☐ B. Compiler
- ☐ C. Hybric Compiler and Interpreter
- ☒ D. Pure Interpreter

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Question 5 of 10

1.0 Points

In the beginning, a program will be executed by an interpreter but after a certain time, a method in the program which is executed many times will be translated by _____ into machine code.

- ☐ A. Compiler
- ☒ B. Just-In-Time compiler
- ☐ C. Hybrid Implementation
- ☐ D. Pure Interpreter

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Assume that:

- a program that contains n lines of code
- it takes t_1 seconds to translate each line of code
- it takes t_2 seconds to execute machine code of each line of code
- the program is translated and executed only one time
- no cost to switch between translation and execution

which interpreter or compiler will make the program run faster?

- ☐ A. Compiler and Interpreter make the program run equally
- ☐ B. Compiler
- ☒ C. Cannot determine which will make the program run faster
- ☐ D. Interpreter

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Question 7 of 10

Given the following C++ code that contains the error in the first line:

```
int wrong@id;
```

which phase of compilation process will issue the error message?

- ☐ A. Syntax analyzer
- ☒ B. Lexical analyzer
- ☐ C. Intermediate code generator
- ☐ D. Semantic analyzer

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Question 8 of 10

Given the following C++ code that contains an type mismatch error at line 2:

```
int x;  
x = 10.2;
```

which compilation phase will issue the type mismatch error message?

- ☐ A. Lexical analyzer
- ☒ B. Semantic analyzer
- ☐ C. Syntax analyzer
- ☐ D. Intermediate code generator

Question 9 of 10

Which program performs file inclusion?

- ☐ A. Assembler
- ☐ B. Loader
- ☒ C. Preprocessor
- ☐ D. Linker

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1.0 Points

A program can be made of many source files but there is only one execution file of the program. Which of the following combines many object files into one execution file?

- ☐ A. Preprocessor
- ☐ B. Assembler
- ☒ C. Linker
- ☐ D. Loader

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