

**Question 2 of 10**

1.0 Points

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

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

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

which criteria is negative by this design?

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

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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 provided, which translator is used?

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

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

[Reset Selection](#)

### Question 6 of 10

1.0 Points

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

[Reset Selection](#)

### Question 7 of 10

1.0 Points

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

```
intwrong@id;
```

which phase of compilation process will issue the error message?

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

[Reset Selection](#)

### Question 8 of 10

1.0 Points

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

[Reset Selection](#)

### Question 9 of 10

1.0 Points

Which program performs file inclusion?

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

### Question 10 of 10

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