Question 1 of 10

Given the following code in C++,

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

khai báo ngoài pv

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

Reset Selection

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

khó đọc

Question 3 of 10   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;
```

cho phép cấp phát tĩnh lẫn động

which criteria is negative by this design?

- ○ A. Writability
- ○ B. Reliability
- ○ C. Readbility
- ◉ D. Cost

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

Reset Selection

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

inter nhưng có compile

Assume that:
- a program that contains n lines of code
- it takes t1 seconds to translate each line of code   *t1: dịch từng dòng*
- it takes t2 seconds to execute machine code of each line of code   *thực thi từng dòng*
- the program is translated and executed only one time   *dịch + thực thi: đều 1 lần*
- 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

Reset Selection

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

Reset Selection

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

Which program performs file inclusion?

- ⚪ A. Assembler
- ⚪ B. Loader
- ⦿ C. Preprocessor
- ⚪ D. Linker

Reset Selection

     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

Reset Selection