Part 1 of 1

Question 1 of 10
Given the following code in C++,

```cpp
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

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

Question 3 of 10
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

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

which criteria is negative by this design?

- [ ] A. Writability
- [ ] B. Reliability
- [ ] C. Readability
- [ ] D. Cost

Reset Selection

Question 4 of 10
Given the following code that contains a syntax error at the second line:

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

If the value 120 is printed out before the error message is provided, 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
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

- [ ] A. Compiler
- [ ] B. Just-In-Time Compiler
- [ ] C. Hybrid Implementation
- [ ] D. Pure Interpreter

Reset Selection
Question 6 of 10

Assume that:
- a program that contains n lines of code
- it takes t1 seconds to translate each line of code
- it takes t2 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

Reset Selection

Question 7 of 10

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

```
int wrong@ld;
```

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
Question 8 of 10

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

```cpp
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

Question 10 of 10

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