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**Class: CSE 2**

**Subject: JAVA**

**Difference between C/C++ and JAVA**

1. C is object-oriented programming. C++ is OOP but not completely and JAVA is almost 100% OOP.
2. C/C++ are static programming language while Java is dynamic programming language.
3. Pre-Processor required in C/C++ while pre-processor not required in JAVA.
4. To include predefined libraries in C/C++ we have to use #include <> statement while JAVA uses import statement.
5. In C/C++ pre-defined libraries are in the form of header files while in JAVA they are in the form of packages.
6. To define class is not mandatory in C/C++ while it is mandatory in JAVA.
7. Pointers are included in C/C++ while they are not included in JAVA.
8. Multiple inheritance allowed in C++ while it is allowed in JAVA.
9. Operator overloading is possible in C++ while it is not possible in JAVA
10. C/C++ are following call by value and call by reference mechanism while JAVA follows only call by value mechanism.
11. C/C++ assign 1 byte memory to char datatype while JAVA assigns 2 byte memory