| **C** | **Java** |
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| [**C**](https://www.geeksforgeeks.org/c-programming-language/)**was developed by Dennis M. Ritchie between 1969 and 1973.** | [**Java**](https://www.geeksforgeeks.org/java/)**was developed by James Gosling in 1995.** |
| **C is a Procedural Programming Language.** | **Java is**[**Object-Oriented language**](https://www.geeksforgeeks.org/object-oriented-programming-oops-concept-in-java/)**.** |
| **C is more procedure-oriented.** | **Java is more data-oriented.** |
| **C is a middle-level language because binding of the gaps takes place between machine level language and high-level languages.** | **Java is a high-level language because translation of code takes place into machine language using compiler or interpreter.** |
| **C is a compiled language that is it converts the code into machine language so that it could be understood by the machine or system.** | **Java is an Interpreted language that is in Java, the code is first transformed into bytecode and that bytecode is then executed by the JVM (Java Virtual Machine).** |
| **C generally breaks down into functions.** | **Java breaks down into Objects.** |
| **C programming language can be used for system programming as well as Application programming.** | **This is not the case in Java.** |
| **C does not contain the property called Inheritance because it does not support OOPS, which is very useful for code reusability. Thus C is not suited when one has to relate the things according to the real world.** | **Java contains the property of Inheritance which is very useful in code reusability.** |
| [**Memory allocation**](https://www.geeksforgeeks.org/dynamic-memory-allocation-in-c-using-malloc-calloc-free-and-realloc/)**can be done by malloc in C** | **Memory allocation can be done by a**[**new keyword**](https://www.geeksforgeeks.org/new-operator-java/)**in Java.** |
| **C is a low-level language. It has difficult interpretation for the user but it has a closer significance to the machine-level code.** | **Java is a high-level language because translation of code takes place into machine language using compiler or interpreter.** |
| **In C89 declaration of variables is at the beginning of the block but in the latest version of C that is C99 we can also declare variables anywhere.** | **We can declare variables anywhere.** |
| **free is used for freeing the memory in C.** | **A compiler will free up the memory internally by calling the garbage collector.** |
| **C supports Threading.** | **Java supports the concept of threading.** |
| **C supports pointers.** | **Java does not supports pointers.** |
| **It is not portable.** | **It is portable.** |
| **Call by value and call by reference is supported in C.** | **It only supports a call by value.** |
| **C is platform dependent.** | **Java is a platform independent.** |
| **It supports user-based memory management.** | **It internally manages the memory.** |
| **C is not robust that is strict type checking does not takes place while compile and run time.** | **Java is robust.** |
| **Exception handling cannot be directly achieved in C and thus it lacks the maintenance of normal flow of the program.** | **Exception Handling is supported in Java.** |
| **It follows a top-down approach.** | **Java follows a bottom-up approach.** |
| **Overloading functionality is not supported by C.** | **Java supports method overloading which helps in code readability.** |
| **C supports [Preprocessors](https://www.geeksforgeeks.org/cc-preprocessors/).** | **Java does not support Preprocessors.** |
| **C does not supports OOPS concept.** | **Java supports OOPS concept.** |
| **Union and structure datatypes are supported by C.** | **Java does not supports union and structures.** |
| **C supports the storage classes.** | **Whereas Java does not support the storage classes.** |
| **It has 32 keywords.** | **It has 50 keywords.** |
| **Go-to statements are supported in C language.** | **Java does not supports go-to statements.** |
| **Virtual keywords are supported by C.** | **Virtual keywords are not supported by Java.** |
| **Overloading functionality is not supported by C.** | **Java supports**[**method overloading**](https://www.geeksforgeeks.org/method-overloading-in-java/)**which helps in code readability.** |
| **Default members of C are public.** | **Default members of Java are private.** |
| **Data hiding is done by using static in C.** | **Data hiding is done by using private in Java.** |