

E) Find 3 differences between a compiler and an interpreter.

Differences	Compiler	Interpreter
1	Translates a program written in a high-level language to the machine language of a computer.	Transforms the high-level program into an intermediate language that it then executes
2	A compiler gets the code ready all at once before running it	An interpreter gets each instruction ready on the fly as the computer runs
3	After a compiler compiles source code files into a program, the program cannot be modified. Therefore, any changes must be made in the source code and the program must be recompiled.	The interpreter is very useful for scripting and small programs, because reads and then executes code in a single process. These scripts can be easily edited and saved without the need to recompile the code.
4	The compiler is best at optimizing for performance and rooting out programming errors before you go to production. The compiler is itself a computer program written usually in some implementation language	The interpreter is easier to run for long periods of time, which is why object-oriented programs on a network tend towards interpreted code.
5	The compiler runs its output much faster.	The interpreter runs its output slower