He gave the first description of cryptanalysis by frequency analysis, the earliest code-breaking algorithm.  
For example, when a bug in a compiler can make it crash when parsing some large source file, a simplification of the test case that results in only few lines from the original source file can be sufficient to reproduce the same crash.  
By the late 1960s, data storage devices and computer terminals became inexpensive enough that programs could be created by typing directly into the computers.  
Some text editors such as Emacs allow GDB to be invoked through them, to provide a visual environment.  
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However, readability is more than just programming style.  
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This can be a non-trivial task, for example as with parallel processes or some unusual software bugs.  
The choice of language used is subject to many considerations, such as company policy, suitability to task, availability of third-party packages, or individual preference.  
Transpiling on the other hand, takes the source-code from a high-level programming language and converts it into bytecode.  
 Whatever the approach to development may be, the final program must satisfy some fundamental properties.  
Relatedly, software engineering combines engineering techniques and principles with software development.  
The Unified Modeling Language (UML) is a notation used for both the OOAD and MDA.