As early as the 9th century, a programmable music sequencer was invented by the Persian Banu Musa brothers, who described an automated mechanical flute player in the Book of Ingenious Devices.  
Assembly languages were soon developed that let the programmer specify instruction in a text format (e.g., ADD X, TOTAL), with abbreviations for each operation code and meaningful names for specifying addresses.  
Some languages are more prone to some kinds of faults because their specification does not require compilers to perform as much checking as other languages.  
However, Charles Babbage had already written his first program for the Analytical Engine in 1837.  
This is interpreted into machine code.  
Also, specific user environment and usage history can make it difficult to reproduce the problem.  
Some languages are more prone to some kinds of faults because their specification does not require compilers to perform as much checking as other languages.  
However, because an assembly language is little more than a different notation for a machine language, two machines with different instruction sets also have different assembly languages.  
 Debugging is a very important task in the software development process since having defects in a program can have significant consequences for its users.  
 A similar technique used for database design is Entity-Relationship Modeling (ER Modeling).  
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 Computer programmers are those who write computer software.  
Some text editors such as Emacs allow GDB to be invoked through them, to provide a visual environment.  
They are the building blocks for all software, from the simplest applications to the most sophisticated ones.