Ideally, the programming language best suited for the task at hand will be selected..  
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.  
 Allen Downey, in his book How To Think Like A Computer Scientist, writes:  
 Many computer languages provide a mechanism to call functions provided by shared libraries.  
In 1206, the Arab engineer Al-Jazari invented a programmable drum machine where a musical mechanical automaton could be made to play different rhythms and drum patterns, via pegs and cams.  
 Debugging is a very important task in the software development process since having defects in a program can have significant consequences for its users.  
 High-level languages made the process of developing a program simpler and more understandable, and less bound to the underlying hardware.  
Unreadable code often leads to bugs, inefficiencies, and duplicated code.  
  
Also, specific user environment and usage history can make it difficult to reproduce the problem.  
Some of these factors include:  
 The presentation aspects of this (such as indents, line breaks, color highlighting, and so on) are often handled by the source code editor, but the content aspects reflect the programmer's talent and skills.  
Their jobs usually involve:  
 Although programming has been presented in the media as a somewhat mathematical subject, some research shows that good programmers have strong skills in natural human languages, and that learning to code is similar to learning a foreign language.  
Programmers typically use high-level programming languages that are more easily intelligible to humans than machine code, which is directly executed by the central processing unit.  
 Computer programmers are those who write computer software.  
Many applications use a mix of several languages in their construction and use.  
By the late 1960s, data storage devices and computer terminals became inexpensive enough that programs could be created by typing directly into the computers.