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Part 1:

Algorithms are a series of instructions that can solve a problem. Algorithms use operations such sequential, conditional, and iterative. Sequential operations execute specific single tasks. Conditional operations are executed depending on the answer of a question. Iterative operations repeat executions from pervious set of instructions. Programs are the language of programing. Computers use unambiguous language with precise syntax and semantics. Python is an example of a programming language. Pseudocode can be used to describe algorithms. It is not a programming language, but can be converted into any programming language. Algorithms, programs, and pseudocode are all important concepts in programming. Programs are essential for computer programming because they are infrastructure in which everything else depends. Algorithms are created with programs to execute specific tasks. Pseudocode can be translated into algorithms to execute specific tasks. Each programming element depends on one another to be efficient, effective, and have the capability to execute specific tasks.

Part 2:

Test Cases

Test for 50: 1 guess

Test for 82: 7 guesses

Test for 17: 7 guesses

Test for 36: 7 guesses