

Kit's Code-Cracking Guide to Programming

Think like a coder, solve like a pro: Logic is your superpower!

- **An algorithm is a precise set of step-by-step instructions designed to complete a specific task or solve a problem.**
- **Decomposition is the process of breaking down a complex, large problem into smaller, more manageable parts.**
- **Debugging is the essential practice of identifying, locating, and fixing errors within a computer programme.**
- **Iteration, often called a 'loop', allows a programme to repeat a sequence of instructions multiple times until a condition is met.**
- **A variable acts as a digital container that stores information, such as a player's score or a character's name, which can change during the programme.**

Did you know? Did you know? The first computer programmer was a mathematician named Ada Lovelace in the 1840s. She realised that computers could do much more than simple calculations—they could follow complex instructions to create music or art long before modern computers were even built!

Key vocabulary: Algorithm · Decomposition · Debugging · Sequence · Variable · Iteration · Input · Output