The code employs modular programming techniques by dividing the program into multiple files:

1.Header file (complex_D1262089.h):

Contains declarations of functions and structures for complex number operations.

Provides function prototypes and type definitions for external use.

Enables encapsulation and information hiding by separating interface from implementation.

2.Function definitions (complex_D1262089.c) (assumed, not provided):

Contains the actual implementation of the functions declared in complex_D1262089.h.

Separates the implementation details from the interface, promoting code organization and encapsulation.

3.Main program file:

Contains the main program logic for solving a quadratic equation using complex numbers.

Utilizes functions declared in complex_D1262089.h for complex arithmetic operations.

Demonstrates the separation of concerns, with the main focus on application logic rather than implementation details.

In summary, the modular approach used in this code enhances readability, maintainability, and reusability by breaking down the program into smaller, more manageable units with well-defined interfaces