

Key point: *Debugging is the process of finding and fixing errors in a program.*

- Logic errors are called *bugs*.



First actual bug found by Admiral Grace Hopper in computer hardware.

JDK includes a command-line debugger, `jdb`, which is invoked with a class name. `jdb` is itself a Java program, running its own copy of the Java interpreter. All the Java IDE tools, such as Eclipse and NetBeans, include debuggers. The debugger utilities let you follow the execution of a program. They vary from one system to another, but they all support most of the following features.

- **Executing a single statement at a time.**
- **Tracing into or stepping over a method.**
- **Setting breakpoints.**
- **Displaying variables.**
- **Displaying call stacks.**
- **Modifying variables.**