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Types of program errors

We distinguish between the following types of errors:

- 1. **Syntax errors**: errors due to the fact that the syntax of the language is not respected.
- 2. **Semantic errors**: errors due to an improper use of program statements.
- 3. **Logical errors**: errors due to the fact that the specification is not respected.

From the point of view of when errors are detected, we distinguish:

- 1. Compile time errors: syntax errors and static semantic errors indicated by the compiler.
- 2. **Runtime errors**: dynamic semantic errors, and logical errors, that cannot be detected by the compiler (debugging).



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