

Compiler Front Side

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Document related to the front side implementation for Monkey Compiler.

1 Operator Priorities

The priorities for operations are listed below:

- 1) `!` `()` `int2tring` `print` `#` Constructor application
- 2) `*`
- 3) `+` `-`
- 4) `<` `>`
- 5) `=`
- 6) `andalso` `orelse`
- 7) Function application

Figure 1: Operator Priorities (highest to lowest)

2 Other Notes

Case expression: Default case (wild matching) is not supported. If the constructor matching fails, the program will simply abort?

For a single matching branch, a variable must be provided to receive the tagged value, even if the corresponding constructor is just a constant value.

Numbers: Integers are supported. Negative integers begin with `" ~ "`.

Variables: Variable names start with any character, and consist of characters and digits. Underlines and `"/"` are not supported in variable names yet.