

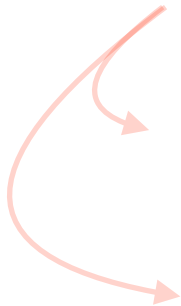
Thescanner

- The heart of the scanner is the procedure `getSymbol ()`, which finds the next valid symbol in a sequence of characters and stores it in a global variable (`symbol`).
- It internally uses two procedures `getCharacter ()` and `findNextCharacter ()`.
- `getCharacter ()` simply reads the next character of the input stream and stores it into a global variable (`character`).
- `findNextCharacter ()` is the implementation of whitespace.

getSymbol()

getCharacter()

findNextCharacter()

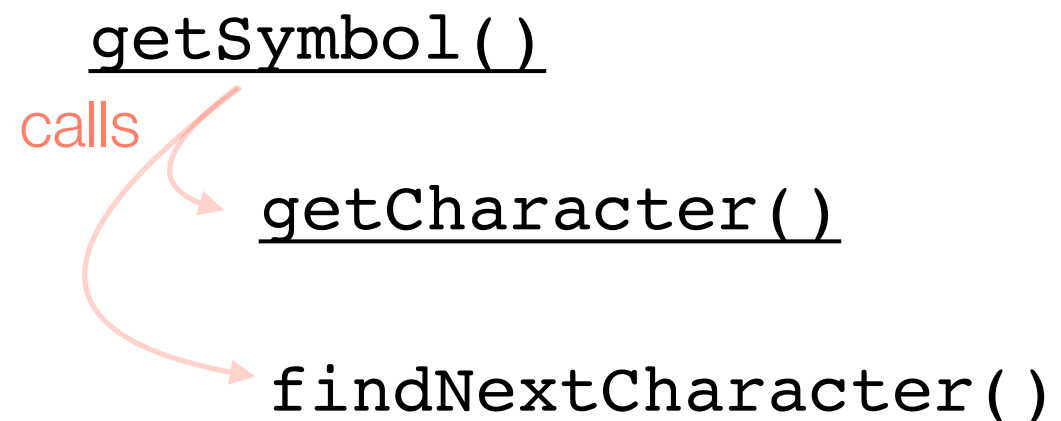


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Sequence of Characters

- The procedure `getCharacter ()` is used to read the next byte into a buffer.
- The return value is either the number of read bytes or 0, which indicates end of file (EOF).
- Any input file is nothing more than a **sequence of characters** to the scanner. It will even accept meaningless sequences as long as it consists of valid symbols in the specified language.

The Scanner



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