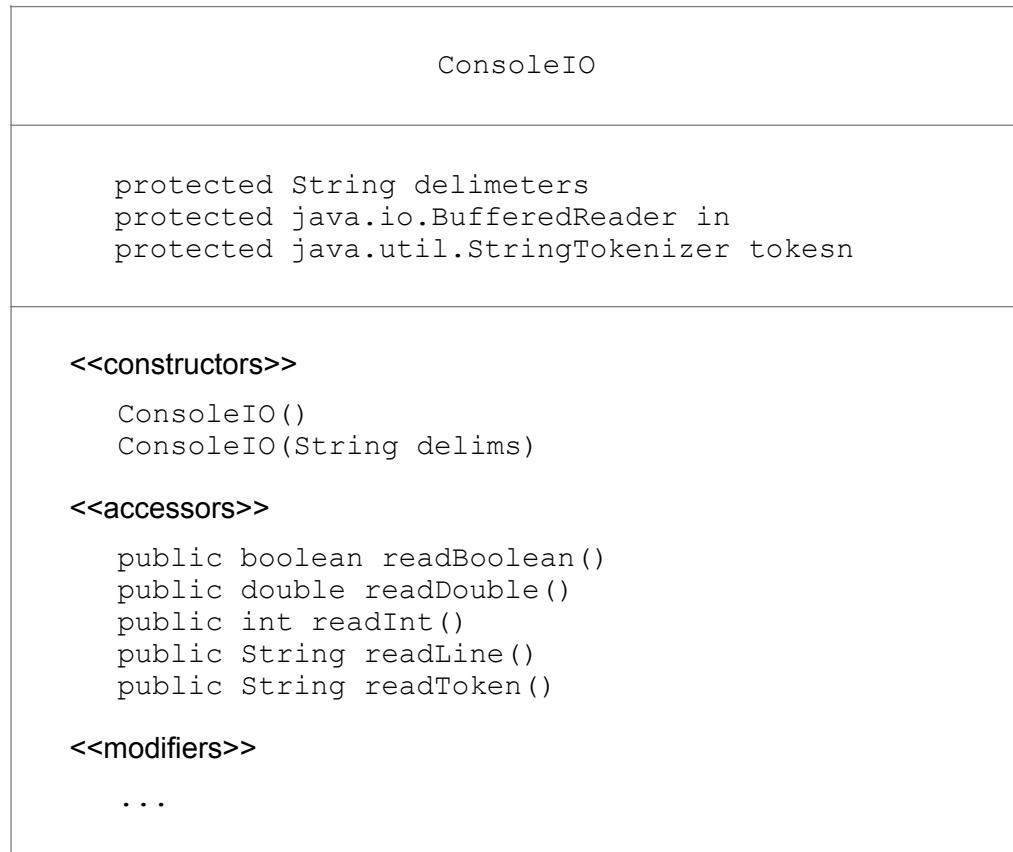


## ConsoleIO CLASS SPECIFICATIONS

These classes are not part of Java but are available through the library named `chn.util`. You must have the file `chnutil.jar` in the appropriate directory where Java can access it. To have these classes available in your program, use this command:

```
import chn.util.*;
```

Other features of `chn.util` will be covered in later lessons.



### Constructor Methods

**public** `ConsoleIO()`

*postcondition*

Constructs the `ConsoleIO` object with default delimiters, space, tab, formfeed.

**public** `ConsoleIO (String delims)`

*postcondition*

Constructs the `ConsoleIO` object with given delimiters.

## ConsoleIO CLASS SPECIFICATIONS

### Accessor Methods

**public boolean** readBoolean()

Reads and returns the next **boolean** from the current line. If the current input line has no more unread tokens, reads the first token from the first non-empty line entered. A valid **boolean** is any token. The value true is returned if the token is "true", with upper or lower case letters, otherwise false is returned.

*postcondition*

returns the next **boolean** from input.

**public double** readDouble()

Reads and returns the next double from the current line. If the current input line has no more unread tokens, reads the first token from the first non-empty line entered. If the next token is not the correct format for a double, then a error message is printed and the program terminates.

*postcondition*

returns the next **double** from input.

**public int** readInt()

Reads and returns the next integer from the current line. If the current input line has no more unread tokens, reads the first token from the first non-empty line entered. If the next token is not the correct format for an integer, then a error message is printed and the program terminates.

*postcondition*

returns the next **integer** from input.

**public String** readLine()

Flushes any remaining tokens on the current input line, then reads the next full line input as a **String** and returns it.

*postcondition*

returns the next line read as a **String**.

**public String** readToken()

Reads and returns the next token from the current line. A token is a **String** of characters separated by the specified delimiters. If the current input line has no more unread tokens, reads the first token from the first non-empty line entered.

*postcondition*

returns the next **String** token from input, as determined by delimiters