

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.

ConsoleIO
<pre>protected String delimiters protected java.io.BufferedReader in protected java.util.StringTokenizer tokensn</pre>
<pre><<constructors>> ConsoleIO() ConsoleIO(String delims) <<accessors>> public boolean readBoolean() public double readDouble() public int readInt() public String readLine() public String readToken() <<modifiers>> ...</pre>

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.

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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