

## HTML Encode

Write a program that reads from `stdin`, prints to `stdout`, and encodes characters that have special meaning in an HTML file.

If a character in an input stream is one of the following five special characters, then it must be converted to an HTML-named entity as described in the following table.

| Character | HTML-encoding           |
|-----------|-------------------------|
| &         | <code>&amp;amp;</code>  |
| <         | <code>&amp;lt;</code>   |
| >         | <code>&amp;gt;</code>   |
| "         | <code>&amp;quot;</code> |
| '         | <code>&amp;apos;</code> |

For example, the following input stream:

```
abc 123 Jim & Fred said that 1 < 27 and "Hello World!"
```

would be converted/encoded to the following HTML output:

```
abc 123 Jim &amp; Fred said that 1 &lt; 27 and &quot;Hello World!&quot;;
```

File you must submit: `htmlencode.cc`

### Hints:

In order to read every character from `std::cin` without the spaces removed, you can prevent C++ from removing them by adding this line at the beginning of your program.

```
std::cin >> std::noskipws;
```