

# Fall 2005 22C:111

## Homework 8 Solution

The following is the definition for predicate "htmlComment(XS)":

```
%22C:111 Fall 2005 Homework 8 Sample solution
```

```
%A comment declaration begins with the character sequence '<!', ends with
```

```
%the character '>',
```

```
%A comment declaration contains zero or more comments.
```

```
htmlComment([60,33|XS]):- append(YS,[62],XS),comments(YS).
```

```
%Whitespace is allowed after any comment, but not before the first comment.
```

```
%Non-whitespace characters are not allowed before or after comments.
```

```
comments([]).
```

```
comments(X):- append(XS1,XS2,X),
```

```
append(YS1,YS2,XS1),comment(YS1),whitespaces(YS2),comments(XS2).
```

```
%whitespaces contain and only contain zero and more whitespace characters.
```

```
whitespaces([]).
```

```
whitespaces([X|XS]):- (X=9;X=10;X=32),whitespaces(XS).
```

```
%Comments begin and end with the character sequence '--', and may not contain '--'.
```

```
comment([45,45|XS]) :- append(YS,[45,45],XS),
```

```
\+append(ZS,[45,45|HS],YS).
```