

COMPILER DESIGN PROJECT

TEST CASES

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Topic - Parse HTML tags for unordered and ordered list (With Nesting)

Testcase 1 :-

Input :

dog

Actual Output : **VALID** **Predicted Output :** **VALID**

```
C:\Users\Sandeep Sahu\Documents\Lex\cd>a
```

```
EMPTY -> epsilon
```

```
S -> EMPTY
```

```
Identified token - <ol>
```

```
EMPTY -> epsilon
```

```
S -> EMPTY
```

```
Identified token - <li>
```

```
EMPTY -> epsilon
```

```
S -> EMPTY
```

```
Identified item - dog
```

```
ITEM -> item
```

```
Identified token - </li>
```

```
ITEM_LIST -> ITEM
```

```
S -> S ITEM_LIST
```

```
CLOSE_LIST -> </li>
```

```
ITEM -> <li> S CLOSE_LIST
```

```
Identified token - </ol>
```

```
ITEM_LIST -> ITEM
```

```
S -> S ITEM_LIST
```

```
ORDERED_LIST -> <ol> S </ol>
```

```
LIST -> ORDERED_LIST
```

```
S -> S LIST
```

```
The Entered HTML Code is VALID.
```

Testcase 2 :-

Input :

Actual Output : **VALID** Predicted Output : **VALID**

```
C:\Users\Sandeep Sahu\Documents\Lex\cd>a
```

```
EMPTY -> epsilon
```

```
S -> EMPTY
```

```
Identified token - <ol>
```

```
EMPTY -> epsilon
```

```
S -> EMPTY
```

```
Identified token - <ul>
```

```
EMPTY -> epsilon
```

```
S -> EMPTY
```

```
Identified token - </ul>
```

```
UNORDERED_LIST -> <ul> S </ul>
```

```
LIST -> UNORDERED_LIST
```

```
S -> S LIST
```

```
Identified token - </ol>
```

```
ORDERED_LIST -> <ol> S </ol>
```

```
LIST -> ORDERED_LIST
```

```
S -> S LIST
```

```
The Entered HTML Code is VALID.
```

Testcase 3 :-

Input :

Actual Output : *INVALID* Predicted Output : *INVALID*

```
C:\Users\Sandeep Sahu\Documents\Lex\cd>a
EMPTY -> epsilon
S -> EMPTY
Identified token - <ol>
EMPTY -> epsilon
S -> EMPTY
Identified token - <ul>
EMPTY -> epsilon
S -> EMPTY
Identified token - </ol>
ERROR ENCOUNTERED WHILE PARSING! Line no. - 3 , error - syntax error, unexpected ordered_closeTag
The Entered HTML code is INVALID.
```

Testcase 4 :-

Input :

Actual Output : *INVALID* Predicted Output : *INVALID*

```
C:\Users\Sandeep Sahu\Documents\Lex\cd>a
EMPTY -> epsilon
S -> EMPTY
Identified token - </ol>
ERROR ENCOUNTERED WHILE PARSING! Line no. - 1 , error - syntax error, unexpected ordered_closeTag
The Entered HTML code is INVALID.
```

Testcase 5 :-

Input :

Actual Output : **INVALID** Predicted Output : **INVALID**

```
C:\Users\Sandeep Sahu\Documents\Lex\cd>a
EMPTY -> epsilon
S -> EMPTY
Identified token - <ol>
EMPTY -> epsilon
S -> EMPTY
Identified token - </ol>
ORDERED_LIST -> <ol> S </ol>
LIST -> ORDERED_LIST
S -> S LIST
Identified token - </ol>
ERROR ENCOUNTERED WHILE PARSING! Line no. - 3 , error - syntax error, unexpected ordered_closeTag
The Entered HTML code is INVALID.
```

Testcase 6 :-

Input :

Dog

Actual Output : **VALID** Predicted Output : **VALID**

```
C:\Users\Sandeep Sahu\Documents\Lex\cd>a
```

```
EMPTY -> epsilon
```

```
S -> EMPTY
```

```
Identified token - <ol>
```

```
EMPTY -> epsilon
```

```
S -> EMPTY
```

```
Identified token - <li>
```

```
EMPTY -> epsilon
```

```
S -> EMPTY
```

```
Identified item - Dog
```

```
ITEM -> item
```

```
Identified token - </ol>
```

```
ITEM_LIST -> ITEM
```

```
S -> S ITEM_LIST
```

```
CLOSE_LIST -> epsilon
```

```
ITEM -> <li> S CLOSE_LIST
```

```
ITEM_LIST -> ITEM
```

```
S -> S ITEM_LIST
```

```
ORDERED_LIST -> <ol> S </ol>
```

```
LIST -> ORDERED_LIST
```

```
S -> S LIST
```

```
The Entered HTML Code is VALID.
```

Testcase 7 :-

Input :

```
<ol>
<li>
Fruit
</li>
<li>
Coffee
</li>
<li>
Tea
</li>
</ol>
```

Actual Output : *VALID* Predicted Output : *VALID*

Testcase 8 :-

Input :

```
<ol>
<li>
Fruit
</li>
</li>
<li>
Tea
</li>
</ol>
```

Actual Output : *INVALID* Predicted Output : *INVALID*

Testcase 9 :-

Input :

```
<ol>
<li>
Fruit
</li>
<li>
Coffee
</li>
Tea
</li>
</ol>
```

Actual Output : **VALID** Predicted Output : **VALID**

Testcase 10 :-

Input :

<h1>Heading 1</h1>

<h3>Test case

Ravi

Chaitali

<h2>Heading 2</h2>

Mitali

<h3>Heading 3</h3>

Actual Output : **INVALID** Predicted Output : **INVALID**

Testcase 11 :-

Input :

<html>

<body>

<h2>A Nested List</h2>

<p>Lists can be nested (list inside list):</p>

Coffee

Tea


```
<li>
Black tea
</li>
<li>
Green tea
</li>
</ul>
<li>
Milk
</li>
</ul>
```

```
</body>
</html>
```

Actual Output : **VALID** **Predicted Output :** **VALID**

Testcase 12 :-

Input :

```
<ol>
<li>
<ul>
<li>
hey
</li>
</ul>
</li>
<li>
<ul>
<li>
dog
</li>
<li>
cat
</li>
</ul>
</li>
</ol>
```


Actual Output : **VALID** Predicted Output : **VALID**

Testcase 13 :-

Input :

dog

Actual Output : **INVALID** Predicted Output : **INVALID**

Testcase 14 :-

Input :

hey

rat

Actual Output : **INVALID** Predicted Output : **INVALID**

Testcase 15 :-

Input :

cat

dog

Actual Output : **VALID** Predicted Output : **VALID**

Testcase 16 :-

Input :

```
<ol>
<li>
cat
<ul>
<li>
dog
</li>
</ul>
```

Actual Output : *INVALID* Predicted Output : *INVALID*

Testcase 17 :-

Input :

```
<ul>
<li>
<ol>
Dog
</li>
</ul>
```

Actual Output : *INVALID* Predicted Output : *INVALID*

Testcase 18 :-

Input :

```
<ul>
<ol>
<li>
Dog
</li>
</ol>
</ul>
```

Actual Output : *VALID* Predicted Output : *VALID*

Testcase 19 :-

Input :

```
<li>
1st line
</li>
Amazing
<ul>
```


Coffee

Actual Output : **VALID** Predicted Output : **VALID**

Testcase 20 :-

Input :

Actual Output : **VALID** Predicted Output : **VALID**

Testcase 21 :-

Input :

Actual Output : **VALID** Predicted Output : **VALID**