

2.4 Lists

Unordered lists

An **unordered list** is a collection of items, usually indented and shown using bullets, surrounded by the **** opening and closing tags. Each **list item** is surrounded by **** opening and closing tags.

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2.4.1: Unordered list.

[Start](#)

2x speed

```
<p>Some high demand majors are:</p>
<ul>
  <li>Mathematics</li>
  <li>Statistics</li>
  <li>Computer Science</li>
</ul>
<p>Source: College Consensus 2019</p>
```

Some high demand majors are:

- Mathematics
- Statistics
- Computer Science

Source: College Consensus 2019

Captions ^

1. An unordered list is surrounded by opening and closing tags.
2. A list item is surrounded by opening and closing tags. The browser displays each item indented and with a bullet.
3. Additional list items may be added. Indenting ends after the list.

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2.4.2: Unordered lists and list items.



Arrange the tags to produce the following unordered list.

- Peanutbutter
- Jelly

If unable to drag and drop, refresh the page.

```
<ul>
```

(1)

The opening `` tag opens an unordered list.

Correct

```
<li>Peanutbutter</li>
```

(2)

The first list item is displayed first, indented with a bullet.

Correct

```
<li>Jelly</li>
```

(3)

Each subsequent list item appears on a separate line, indented with a bullet.

Correct

```
</ul>
```

(4)

The closing `` tag ends an unordered list.

Correct

Reset

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2.4.3: Unordered list tags.



Indicate whether each line has an error.

- (a) ``
- (b) `Apples`
- (c) `Oranges`
- (d) ``

1) (a)

- ☒ No error
☐ Error

Correct

`` opens an unordered list.



2) (b)

- ☐ No error
☒ Error

Correct

The closing tag (second tag) should be ``, not another ``.



3) (c)

- ☐ No error
☒ Error

Correct

The line is missing a closing `` tag. Omitting a closing `` tag is a common error.




4) (d)

- ☒ No error

Correct



 Error

 `` ends an unordered list.

[Feedback?](#)

Ordered lists

An **ordered list** is a sequenced collection of items, usually indented and shown using numbers or letters, surrounded by the `` opening and closing tags. As with an unordered list, each list item is surrounded by `` opening and closing tags. The `` tag's numbering scheme is specified with the **type attribute**. The table below shows the different types available.

Table 2.4.1: Ordered list types.

Type	Description	Example	Result
<code>type="1"</code>	Numbers (default)	<pre><ol type="1"> item 1 item 2 item 3 </pre>	1. item 1 2. item 2 3. item 3
<code>type="A"</code>	Uppercase letters	<pre><ol type="A"> item 1 item 2 item 3 </pre>	A. item 1 B. item 2 C. item 3
<code>type="a"</code>	Lowercase letters	<pre><ol type="a"> item 1 item 2 item 3 </pre>	a. item 1 b. item 2 c. item 3

<code>type="I"</code>	Uppercase Roman numerals	<pre><ol type="I"> item 1 item 2 item 3 </pre>	I. item 1 II. item 2 III. item 3
<code>type="i"</code>	Lowercase Roman numerals	<pre><ol type="i"> item 1 item 2 item 3 </pre>	i. item 1 ii. item 2 iii. item 3

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CSS list-style-type

The CSS property **list-style-type** provides the ability to change the bullet used in an unordered list and offers more numbering options in an ordered list.

Example	Result
<pre><ul style="list-style-type:square"> Item 1 Item 2 Item 3 </pre>	<ul style="list-style-type: none">■ Item 1■ Item 2■ Item 3
<pre><ol style="list-style-type:lower-greek"> Item 1 Item 2 Item 3 </pre>	<ol style="list-style-type: none">α. Item 1β. Item 2γ. Item 3

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2.4.4: An ordered list: High demand majors.



The HTML below shows an ordered list. Modify the HTML:

1. Add Genetic Counseling as the fourth degree and Cybersecurity as the fifth.
2. Use the `type` attribute to change the numbering type to letters and then to Roman numerals.

```
1 <p>Top masters degrees in demand are: </p>
2 <ol>
3   <li>Physician Assistant</li>
4   <li>Statistics</li>
5   <li>Nursing</li>
6 </ol>
7 <p>Source: College Consensus 2019</p>
```

[Render webpage](#)[Reset code](#)

Your webpage

Top masters degrees in demand are:

1. Physician Assistant
2. Statistics
3. Nursing

Source: College Consensus 2019

▼ View solution

 Explain

--- START FILE: html ---

```
<p>Top masters degrees in demand are: </p>
<ol type="A"> <!-- or type="I" for Roman numerals -->
  <li>Physician Assistant</li>
  <li>Statistics</li>
```

```
<li>Nursing</li>
<li>Genetic Counseling</li>
<li>Cybersecurity</li>
</ol>
<p>Source: College Consensus 2019</p>
```

--- END FILE: html ---

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2.4.5: Ordered list.



Refer to the HTML below.

```
<ol>
  <li>Cats</li>
  <li>Dogs</li>
  <li>Hamsters</li>
</ol>
```

1) The list will be numbered 1., 2., 3.

- ☒ True
☐ False

Correct

Ordered lists are numbered with numbers by default.



2) Adding `type="i"` to the first `` changes the list to i., ii., iii.

- ☐ True
☒ False

Correct

`type="i"` must be added to the `` tag to affect the whole list, not the `` tag.



3) Changing the ordered list to an unordered list with `type="A"` changes the list to A., B., C.

- ☐ True
☒ False

Correct

The `type` attribute is deprecated for `` and should not be used. An unordered list should use CSS to change the bullet style.

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Nested lists

A **nested list** is a list within a list item of another list. Nested lists are indented inside the outer list. A nested unordered list uses a different bullet style, and a nested ordered list restarts at 1.

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2.4.6: Nested movie and book lists.

**Start** ☐ 2x speed

```
<ul>
  <li>Favorite movies
    <ol>
      <li>The Princess Bride</li>
      <li>Remember the Titans</li>
      <li>Moana</li>
    </ol>
  </li>
  <li>Favorite books</li>
    <ol>
      <li>To Kill a Mockingbird</li>
      <li>The Brothers Karamazov</li>
    </ol>
  </li>
</ul>
```

- Favorite movies
 1. The Princess Bride
 2. Remember the Titans
 3. Moana
- Favorite books
 1. To Kill a Mockingbird
 2. The Brothers Karamazov

Captions ^

1. An unordered list has two list items.
2. A numbered list of movies is nested inside the unordered list's first li element.
3. A common mistake is to leave a nested list outside an item's and tags. Although the HTML may render as intended, the HTML is technically incorrect.
4. For the HTML to conform to the HTML Living Standard, the nested list should go INSIDE an item's and tags.

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2.4.7: Nested lists.



The HTML below shows three nested ordered lists. Try making the following modifications:

1. Add the fourth most populous state, New York, with cities New York and Buffalo.
2. Change California's nested tags to tags.
3. Add an ordered or unordered list under Los Angeles with three items:
 1. Most populous city in California
 2. Second-most populous city in USA
 3. Third-most populous city in North America

```
8     </li>
9
10    <li>Texas
11        <ol>
12            <li>Houston</li>
13            <li>San Antonio</li>
14        </ol>
15    </li>
16
17    <li>Florida
18        <ol>
19            <li>Jacksonville</li>
20            <li>Miami</li>
21        </ol>
22    </li>
23 </ol>
```

[Render webpage](#)[Reset code](#)

Your webpage

Most populous states and cities within those states:

1. California
 1. Los Angeles
 2. San Diego
2. Texas
 1. Houston
 2. San Antonio
3. Florida
 1. Jacksonville
 2. Miami

▼ View solution

 Explain

--- START FILE: html ---

```
<p>Most populous states and cities within those states:</p>
<ol>
  <li>California
    <ul>
      <li>Los Angeles
        <ul>
          <li>Most populous city in California</li>
```



```
<li>Second-most populous city in USA</li>
<li>Third-most populous city in North
America</li>
    </ul>
</li>
    <li>San Diego</li>
</ul>
</li>

<li>Texas
    <ol>
        <li>Houston</li>
        <li>San Antonio</li>
    </ol>
</li>
<li>Florida
    <ol>
        <li>Jacksonville</li>
        <li>Miami</li>
    </ol>
</li>
<li>New York
    <ol>
        <li>New York</li>
        <li>Buffalo</li>
    </ol>
</li>
</ol>

--- END FILE: html ---
```

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2.4.8: Nested lists.



Indicate what precedes the given list item when rendered by the browser. Valid answers are: bullet, 1., 2., or 3.

1)

```
<ol>
  <li>Apples</li>
  <li>Oranges</li>
</ol>
```

Oranges

Check[Show answer](#)**Answer**

2.

 starts a numbered list using 1., 2., etc.



2)

```
<ol>
  <li>Apples</li>
  <li>Oranges
    <ol>
      <li>Valencia</li>
      <li>Mandarin</li>
    </ol>
  </li>
</ol>
```

Valencia

Check[Show answer](#)**Answer**

1.

Apples is numbered 1, and Oranges 2. Then, the nested starts a new numbered list, so Valencia will be numbered 1.



3)

```
<ol>
  <li>Apples
    <ul>
      <li>Granny
        Smith</li>
      <li>Red
        Delicious</li>
    </ul>
  </li>
  <li>Oranges</li>
</ol>
```

Red Delicious

Check[Show answer](#)**Answer**

bullet

 starts a nested unordered list, so Granny Smith and Red Delicious will use bullets.



4)

```
<ol>
  <li>Apples
    <ol>
      <li>Red</li>
      <li>Green</li>
    </ol>
  </li>
  <li>Oranges</li>
  <li>Bananas</li>
</ol>
```

Oranges

Check[Show answer](#)**Answer**

2.

The fruit list's numbering will be: 1. Apples, 2. Oranges, and 3. Bananas. The nested list with Red and Green does not affect that fruit list's numbering.



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ACTIVITY**

2.4.1: Lists.



530096.4000608.qx3zqy7

Start

1



2



3



4

Modify the grocery list to be an unordered list. Use a paragraph element to enclose the text "Grocery list:" before the list. Mismatched, missing, and incorrectly nested tags are considered incorrect even if the rendered webpage looks correct.

SHOW EXPECTED

```
1 |
2 Grocery list:
3 Grapes
4 Avocados
5 Jelly
6
```

1

2

3

4

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Exploring further:

- [HTML lists](#) from W3Schools.

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this
section?

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