Course:	Name: Date:			
Part	I: DOM Basics (7)			
0. What	is the `document` object?			
[]	The elements tab in chrome developer tools			
[]	An HTML file			
[]	A javascript object representing the content of a page			
[]	A javascript data type for very long strings			
1. The	`document` object, like all other global variables, is a property of which object?			
[]	body			
[]	<mark>window</mark>			
[]	location			
[]	process			
2. What	object does the `getElementById` method exist on?			
[]	Any javascript object			
[]	window			
[]	document			
[]	addEventListener			
Example A:				
	<pre>shoppingList1 = document.querySelector('#shopping-list'); shoppingList2 = document.getElementById('shopping-list');</pre>			
3. In the example above: shoppingList1 and shoppingList2 are the same thing				
[]	true [] false			

- 4. What does Element.querySelector() return?
- [] HTMLElement Object
- [] NodeList Object
- [] HTML String
- [] Boolean
- 5. What is a difference between the querySelector and querySelectorAll methods?
- [] There is no difference between them
- [] querySelector returns all matches in the document querySelectorAll returns the first match
- [] querySelector returns the first match in the document querySelectorAll returns all matches
- [] querySelector returns a CSS Selector in the document querySelectorAll returns a list of CSS selectors

Example B:

```
<body>

        Milk
        Eggs
        Butter
        Flour

</pr
```

6. How would you select all list items in the list from the example above?

```
[ ] document.body.querySelectorAll('#shopping-list li')
[ ] document.body.querySelector('#shopping-list li')
[ ] document.body.querySelectorAll('#shopping-list .shopping-item')
[ ] Both (0) and (2)
```

Part II: DOM Manipulation (8)

Ο.	Creat	ring an element with the createElement method makes that element appear on the page		
[]	true [] false		
1.	What	Element object property can you use to change the entire value of an element's class		
at [.]	tribut	re?		
[]	class		
[]	className		
[]	classList		
[]	None of the above		
2.	The M	Node.insertBefore() method takes only **one** argument:		
[]	true [] <mark>false</mark>		
3. Which method can be used to remove an element from the DOM?				
[]	Node.removeChild()		
[]	Node.removeElement()		
[]	Node.deleteElement()		
[]	Node.removeNode()		
4. To retrieve user input from a form control (input, textarea, select) you can use:				
[]	The `.value` property		
[]	An element's dataset		
[]	The `.textContent` property		
[]	There is no way to retrieve the user input without sending the fform to a server		

Example C:

```
const fibonnaci = [0, 1, 1, 2, 3, 5, 8, 13, 21];
const div = document.createElement('div');

div.style['background-color'] = 'black';
div.style['color'] = 'white';
div.style['font-family'] = 'monospace';

fibonnaci.forEach(number => {
  let span = document.createElement('span');
  let text = document.createTextNode(number + ' ');

  span.style['font-size'] = `${number}px`;

  span.appendChild(text);
  div.appendChild(span);
});

document.body.appendChild(div);
```

5. What HTML will be added to the page as the result of example C?

```
[
  ] <div>
         <span>0 </span>
         <span>1 </span>
         <span>1 </span>
         <span>2 </span>
         <span>3 </span>
         <span>5 </span>
         <span>8 </span>
         <span>13 </span>
         <span>21 </span>
       </div>
[
  ] <div style="background-color: black; color: white; font-family: monospace;</pre>
      font-size: 21px;">
         <span>0 </span>
         <span>1 </span>
         <span>1 </span>
         <span>2 </span>
         <span>3 </span>
         <span>5 </span>
         <span>8 </span>
         <span>13 </span>
         <span>21 </span>
       </div>
Γ
   div style="background-color: black; color: white; font-family: monospace;"
       <span style="font-size: 0px;">0 </span>
         <span style="font-size: 1px;">1 </span>
         <span style="font-size: 1px;">1 </span>
         <span style="font-size: 2px;">2 </span>
         <span style="font-size: 3px;">3 </span>
         <span style="font-size: 5px;">5 </span>
         <span style="font-size: 8px;">8 </span>
         <span style="font-size: 13px;">13 </span>
         <span style="font-size: 21px;">21 </span>
       </div>
   ] None of the above, there is no text added to the `<span>` elements
```

Example D:

```
const students = [
   name: 'Inkar Haber',
   age: '27',
   location: 'Tehran'
 },
 {
   name: 'Joakim MacDermott',
   age: '31',
   location: 'Birmingham'
 },
 {
   name: 'Eilert Schwartz',
   age: '52',
   location: 'Saint Petersburg'
]
const listElem = document.createElement('ul');
students
.sort((studentA, studentB) => studentA.name.localeCompare(studentB.name))
.map(student => {
  let listItem = document.createElement('li');
  listItem.innerText = `${student.name} is ${student.age} years old from
${student.location}`;
  listItem.classList.add('student-item');
  return listItem;
 .forEach(listItem => listElem.appendChild(listItem));
document.body.appendChild(listElem);
```

6. What HTML will be added to the page as the result of example D?

```
[ ] 
     Inkar Haber is 27 years old from Tehran
     Joakim MacDermott is 31 years old from Birmingham
     Eilert Schwartz is 52 years old from Saint Petersburg
    [ ] <mark></mark>
     Eilert Schwartz is 52 years old from Saint Petersburg
     Inkar Haber is 27 years old from Tehran
     Joakim MacDermott is 31 years old from Birmingham
     [
 ] 
       Eilert Schwartz is 52 years old from Saint Petersburg
     <1i>>
       Inkar Haber is 27 years old from Tehran
     <1i>>
       Joakim MacDermott is 31 years old from Birmingham
```

[] Nothing, this is not valid javascript

Example E:

```
let animals = ['chicken', 'cow', 'pigeon', 'duck', 'pig', 'dog', 'sheep', 'goat',
    'horse'];

animals.filter(animal => animal.includes('o'))
    .map(animal => {
        let image = document.createElement('img');
        image.src = `images/${animal}.jpg`;
        image.data.animal = animal;
        return image;
    })
    .forEach(image => {
        let container = document.createElement('div');
        container.className = 'animal-container';
        container.appendChild(image);

        document.body.appendChild(container);
    });
```

7. What HTML will be added to the page as the result of example E?

```
[
      <div class="animal-container">
       <img src="images/cow.jpg" data-animal="cow">
      </div>
      <div class="animal-container">
       <img src="images/pigeon.jpg" data-animal="pigeon">
      </div>
      <div class="animal-container">
       <img src="images/dog.jpg" data-animal="dog">
      </div>
      <div class="animal-container">
       <img src="images/goat.jpg" data-animal="goat"</pre>
      <div class="animal-container">
       -<img src="images/horse.jpg" data-animal="horse">
      </div>
Γ
   | cimg src="images/cow.jpg" data-animal="cow">
      <img src="images/pigeon.jpg" data-animal="pigeon">
      <img src="images/duck.jpg" data-animal="duck">
      <img src="images/pig.jpg" data-animal="pig">
      <img src="images/dog.jpg" data-animal="dog">
      <img src="images/sheep.jpg" data-animal="sheep">
      <img src="images/goat.jpg" data-animal="goat">
      <img src="images/horse.jpg" data-animal="horse">
Γ
   | <div class="animal-container" data-animal="cow">
        <img src="images/cow.jpg">
      </div>
      <div class="animal-container" data-animal="pigeon">
        <img src="images/pigeon.jpg">
      </div>
      <div class="animal-container" data-animal="dog">
         <img src="images/dog.jpg">
      <div class="animal-container" data-animal="goat">
        <img src="images/goat.jpg">
      <div class="animal-container" data-animal="horse">
         <img src="images/horse.jpg">
      </div>
```

Γ] None of the above, some of the animals are missing

Part III: DOM Traversal (8)

0. What is DOM Traversal?

```
    Adding and Removing elements from the DOM
    Changing elements in the DOM
    Selecting Elements based on their relationship with a specific element
    Both (0) and (2)
```

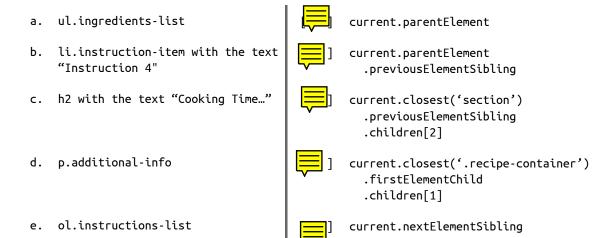
1. A Node and an Element are the exact same thing

[] true [] false

Example F:

```
<body>
<main class="recipe-container">
 <header id="recipe-header">
  <h1 class="recipe-title">Shakshuka</h1>
  Great algorithm for an easy meal. Feeds 2 adult
humans.
 </header>
 <section id="recipe-ingredients">
  <h2>Prepare Before:</h2>
  Some kind of sentence...
  Item 1
   Item 2
   Item 3
   Item 4
   Item 5
  </section>
 <section id="recipe-instructions">
  <h2>Cooking Time...</h2>
  Instruction 1
   Instruction 2
   Instruction 3
   Instruction 4
  </section>
</main>
</body>
```

2 - 6. In example F: Assuming that `current` is the list item with the text "Instruction 3", match the following descriptions with the Element properties that will select them in JS



- 7. Why is previousElementSibling preferred to previousSibling when traversing the DOM?
- [] previousSibling has a larger performance impact than previousElementSibling
- [] previousSibling and previousElementSibling are exactly the same
- [] previousSibling is not part of the DOM API
- [] previousElementSibling will always contain a DOM Element, while previousSibling might contain other things

Part IV: Events (7)

0.	Whi	ch arguments does the EventTarget.addEventListener() method take?		
[]	Event Name String, Element to listen to, Function expression to call when the event occurs		
[]	Element to listen to, Function expression to call when the event occurs		
[]	Event Name String, Function expression to call when the event occurs		
[]	Function expression to call when the event occurs		
1. The function that you pass as an argument to the EventTarget.addEventListener() method is often called:				
[]	A callback		
[]	An event listener		
[]	An event handler		
[]	Both (0) and (2)		
2.	Event	t.preventDefault() is a method that:		
[]	Stops the event from bubbling up the DOM		
[]	Has to be called in order to attach and event handler to an element		
[]	Prevents any default browser behaviour from executing when the event handler is called on the element it is attached to		
[]	Both (0) and (2)		
What is the difference between `event.target` and `event.currentTarget`				
[]	`event.target` is the event name that was triggered, `event.currentTarget` is the element that triggered the event		
[]	`event.target` is the element that triggered the event, `event.currentTarget` is the event name that was triggered		
[]	`event.target` is the element the event listener is attached to, `event.currentTarget` is the element that triggered the event		
[]	`event.target` is the element that triggered the event , `event.currentTarget` is the element the event listener is attached to		
4.	A pai	rent will respond to the same event a child does because of event bubbling.		

[] <mark>false</mark>

```
const triggers = document.querySelectorAll('#trigger-container .trigger');

triggers.forEach(trigger => trigger.addEventListener('click', event => {
    event.preventDefault();

let currentTrigger = event.target;
    let triggerParent = currentTrigger.parentElem;

for(let i = 0; i < 100; i++){
    let paragraph = document.createElement('p');
    paragraph.innerText = 'Haha, you clicked the trigger!';
    triggerParent.appendChild(paragraph);
    }
}));</pre>
```

- 5. In example G: What will happen when a user clicks on an element with the class trigger?
- [] Nothing will happen
- [] 100 paragraphs will be added inside the '.trigger' element
- [] 100 paragraphs will be added to all parents of all trigger elements
- [] 100 paragraphs will be added to the parent of the trigger element that was clicked

```
6. In example G: What code will we write to **delegate** the click event?
[ ] const triggers = document.querySelectorAll('#trigger-container .trigger');
       triggers.forEach(trigger => {
         trigger.delegate('click', trigger.parentElem, event => {
           // ... Same code as in example
         })
       });
 const triggerContainer = document.querySelector('#trigger-container');
       triggerContainer.delegate('click', '.trigger', event => {
         event.preventDefault();
         let currentTrigger = event.target;
         let triggerParent = event.currentTarget;
         // ... Same code as in example
       });
Γ
   const triggerContainer = document.querySelector('#trigger-container');
       triggerContainer.addEventListener('click', event => {
         if(!event.target.classList.contains('trigger')) return;
         event.preventDefault();
         let currentTrigger = event.target;
         let triggerParent = event.currentTarget;
         // ... Same code as in example
       });
[
   const triggers = document.querySelectorAll('#trigger-container .trigger');
       triggers.forEach(trigger => {
         trigger.addEventListener('click', event => {
           event.preventDefault();
           let currentTrigger = event.target;
           let triggerParent = event.currentTarget;
           // ... Same code as in example
         })
       });
```