

**Explain the difference between the == operator and the === operator.**

In JS, '==' means 'equal to' but '===' defines both equality of content AND type.

**Explain what a closure is. (Note that JavaScript programs use closures very often.)**

It is a JS tool to change global variables into local ones.

**Explain what higher order functions are.**

It is a function that operates on another function either by taking them as arguments or by returning them.

**Explain what a query selector is and give an example line of JavaScript that uses a query selector.**

It is a method defined both on the document object and on element nodes, takes a selector string and returns an array-like object containing all the elements that it matches.

*Example:*

```
<p>And if you go chasing  
  <span class="animal">rabbits</span></p>  
<p>And you know you're going to fall</p>  
<p>Tell 'em a <span class="character">hookah smoking  
  <span class="animal">caterpillar</span></span></p>  
<p>Has given you the call</p>
```

```
<script>  
function count(selector) {  
  return document.querySelectorAll(selector).length;  
}  
console.log(count("p"));      // All <p> elements  
// → 4  
console.log(count(".animal")); // Class animal  
// → 2  
console.log(count("p .animal")); // Animal inside of <p>  
// → 2  
console.log(count("p > .animal")); // Direct child of <p>  
// → 1  
</script>
```

Here "querySelectorAll(selector)" selects the elements inside a paragraph or with the tag 'animal' that are children of a paragraph.