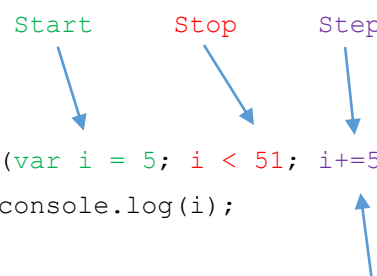


Practice Quiz: JavaScript for and while Loops

1. Predict what would be printed to the console. (/4)

<p>Start Stop Step</p>  <pre>for (var i = 5; i < 51; i += 5) { console.log(i); }</pre> <p>Another way to write <code>i += 5</code></p>	5 10 15 20 25 30 35 40 45 50
<pre>for (var count = 5; count < 11; count++) { console.log(count); }</pre> <p>Another way to write <code>count = count + 1</code></p>	5 6 7 8 9 10

2. The condition in the following while loop was changed, as shown

```
var understand = true;

while(understand) {
  console.log("I'm looping!");
  understand = false;
}
```

```
var understand = true;

while(true) {
  console.log("I'm looping!");
  understand = false;
}
```

Would the change have any affect when you run the code? Explain.

Yes. The first loop will run once and then stop because the condition, "understand", becomes false when the loop runs. The second case is an infinite loop (it would run forever) because the condition never becomes false

(/3)

3. What will this code output?

```
var x = 3;
var i = 0;
while (i < 3) {
  x += 1;
  i += 1;
}
console.log(x);
```

- a) 3
- b) 7
- c) 6
- d) 4
- e) error

Initially:	After 1 loop:	After 2 loops:	After 3 loops:	i is no longer less than 3, so the loop doesn't run again, and the current value of x is printed								
<table><tr><td>3</td><td>0</td></tr></table>	3	0	<table><tr><td>4</td><td>1</td></tr></table>		4	1	<table><tr><td>5</td><td>2</td></tr></table>	5	2	<table><tr><td>6</td><td>3</td></tr></table>	6	3
3	0											
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4. Create a for loop that will print out all the even numbers between 1 and 101. (/4)

```
for (var i=2 ; i<101 ; i=i+2){
  console.log(i);
}
```

```
for (var i=2 ; i<101 ; i++){
  if (i%2==0){
    console.log(i);
  }
}
```

5. Create a while loop that asks the user: "Is it the weekend yet?". The loop continues to prompt the user as long as the user keeps entering 'no'. The loop stops when the user enters 'yes'. (/7)

```
var weekend = "no";

while(weekend == "no"){

  weeeekend = prompt("Is it the weekend yet?");

}
```

one's better. Why?) -----

```
var weekend = "no";

while(weekend != "yes"){

  weeeekend = prompt("Is it the weekend yet?");

}
```