

# Tutorial 10 Quick Check Answers

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## Session 10.1 Quick Check

1. An array is a collection of data values organized under a single name with each value referenced by an index number.
2. `var dayNames = new Array();`
3. `var dayNames = ["Sun", "Mon", "Tue", "Wed", "Thu", "Fri", "Sat"];`
4. `dayNames[2]`
5. `dayNames.sort();`
6. `dayNames.slice(1, 6);`
7. `var myArray =  
[ 3, 0, -2],  
[12, -8, 1],  
[4, 1, -3]  
];`

## Session 10.2 Quick Check

1. A program loop is a set of commands that is executed repeatedly until a stopping condition has been met. Three program loops supported by JavaScript are the For, While, and Do/While loops.
2. `for (var i = 0; i <= 100; i += 10)`
3. `var tableCode = "<tr>";  
for (var i = 1; i <= 5; i++) {`

```
    tableCode += "<td>Column " + i + "</td>";  
  }  
  tableCode += "</tr>";
```

```
4. var tableCode = "<tr>";  
  
   var i = 1;  
  
   while (i <= 5) {  
  
     tableCode += "<td>Column " + i + "</td>";  
  
     i++;  
  
   }  
  
   tableCode += "</tr>";
```

```
5. var x = [2, 14, -3, 7];  
  
   x.forEach(Increase10);  
  
   function Increase10(value, i, arr) {  
  
     arr[i] = value + 10;  
  
   }
```

```
6. var x = [2, 14, -3, 7];  
  
   var y = x.map(Increase10);  
  
   function Increase10(value) {  
  
     return value + 10;  
  
   }
```

```
7. var x = [2, 14, -3, 7];  
  
   var allPositive = x.every(isPos);  
  
   function isPos(value) {  
  
     return value > 0;  
  
   }
```

```
8. var x = [2, 14, -3, 7];  
  
   var y = x.filter(isPos);  
  
   function isPos(value) {  
       return value > 0;  
   }
```

## Session 10.3 Quick Check

1. A conditional statement is a statement that runs a command block only when certain conditions are met. The most commonly used conditional statement is the if statement.
2. 

```
if (thisHour < 9) alert("Good Morning");
```
3. 

```
if (thisHour < 9) {  
    alert("Good Morning");  
}  
else {  
    alert("Good Day");  
}
```
4. 

```
if (thisHour < 9) {  
    alert("Good Morning");  
}  
else if (thisHour < 12) {  
    alert("Good Day");  
}  
else if (thisHour < 16) {  
    alert("Good Afternoon");  
}  
else {  
    alert("Good Evening");  
}
```

5. `thisDate.getDay()`
6. `var thisWeek = thisDate === 0 || thisDate === 6 ? "Weekend" : "Weekday";`
7. `break`
8. `continue`