Control Flow

Overview

```
1   /*
2     - What is control flow?
3     - if/else/if else
4     - Logical operators
5   */
6
7
8
9
10
```

What is control flow?

```
1  /* generally, our code runs from top to
2     bottom */
3
4  console.log('first!');
5  console.log('second!');
6
7
8
```

What is control flow?

```
1  /* often, we don't want every line of our
2     code to run in order */
3
4  /* in some cases, we may not want a line of
5     code to run at all! */
6
7  /* control flow enables us to change the
8     order in which our code runs */
```

if statement

```
1  /* the if statement is an example of a JS
2     feature that allows us to affect control
3     flow */
4
5
6
7
8
```

if statement

```
1  // if statement starts with the if keyword
2  // then, two parens around an expression
3  /* finally, curly brackets surrounding the
4     lines of code to run; these lines only run
5     if the expression evaluates to true */
6  if (true) {
7    console.log('in the if');
8  }
```

if statement

```
1  console.log('can i see you?');
2
3  if (false) {
4    console.log('sorry, no');
5  }
6
7  if (true) {
8    console.log('i\'ll be there!');
9  }
```

if statement

```
1  let neatNum = 7;
2
3  if (neatNum === 7) {
4    console.log('wow that\'s a seven!');
5  }
6
7  if (neatNum === 8) {
8    console.log('wow that\'s an eight!');
9  }
```

else clause

```
1  /* the code in an else block will run only if
2     the expression in the if evaluates to false */
3  if (false) {
4    console.log('in the if');
5  }
6  else {
7    console.log('in the else');
8  }
9
```

else if clause

```
1  /* the code in an else if clause has its own
2     condition and only runs if the condition
3     evaluates to true */
4  if (false) {
5    console.log('in the if');
6  }
7  else if (true) {
8    console.log('in the else if');
9  }
```

else if clause

```
1   let name = 'Ada';
2   if (name === 'Ada') {
3     console.log('Hi Countess Lovelace!');
4   }
5   else if (name === 'Grace') {
6     console.log('Hi Rear Admiral Hopper!');
7   }
8   else {
9     console.log('Hi friend!');
10  }
```

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else if clause

```
1   let name = 'Grace';
2   if (name === 'Ada') {
3     console.log('Hi Countess Lovelace!');
4   }
5   else if (name === 'Grace') {
6     console.log('Hi Rear Admiral Hopper!');
7   }
8   else {
9     console.log('Hi friend!');
10  }
```

else if clause

```
1   let name = 'Ashi';
2   if (name === 'Ada') {
3     console.log('Hi Countess Lovelace!');
4   }
5   else if (name === 'Grace') {
6     console.log('Hi Rear Admiral Hopper!');
7   }
8   else {
9     console.log('Hi friend!');
10  }
```

Logical operators

```
1   // && is the logical 'and' operator
2   /* it will return true if placed between two
3      boolean values and both are true */
4   if (true && true) {
5     console.log('in the first if');
6   }
7
8   if (true && false) {
9     console.log('in the second if');
10  }
```

Logical operators

```
1   // || is the logical 'or' operator
2   /* it will return true if placed between two
3      boolean values and either is true */
4   if (false || true) {
5     console.log('in the first if');
6   }
7
8   if (false || false) {
9     console.log('in the second if');
10  }
```

Recap

```
1   /*
2     - What is control flow?
3     - if/else/if else
4     - Logical operators
5   */
6
7
8
9
10
```