

## Adding Elements and Intermediate Array Techniques

Write a program that prints the numbers from 1 to 100. But for multiples of three print “Fizz” instead of the number and for the multiples of five print “Buzz”. For numbers which are multiples of both three and five print “FizzBuzz”.

<https://blog.codinghorror.com/why-cant-programmers-program/>

### Code:

```
var output = [];  
var count = 1;  
  
function fizzBuzz(){  
  
    //Write code here  
    for(count; count<=100; count++){  
        if(count%3 === 0){  
            output.push("Fizz");  
        }  
        else if(count%5 === 0){  
            output.push("Buzz");  
        }  
        else if(count%3 === 0 && count%5 === 0){  
            output.push("FizzBuzz");  
        }  
        else{  
            output.push(count);  
        }  
    }  
}
```

```

}

console.log(output);
}

```

//Function Call

fizzBuzz();

```

[Intervention] Slow network is detected. See https://www.chromestatus.com/feature/568895624022016 for more details. Fallback font will be used while loading. new:100-0000/111
chrome://resources/ripple/ripple-regular.woff2

> var output = [];
var count = 1;

function fizzBuzz(){
  //write code here
  for(count; count<=100; count++){
    if(count%3 === 0){
      output.push("Fizz");
    }
    else if(count%5 === 0){
      output.push("Buzz");
    }
    else if(count%3 === 0 && count%5 === 0){
      output.push("FizzBuzz");
    }
    else{
      output.push(count);
    }
  }
  console.log(output);
}

//Function Call
fizzBuzz();

[100] [1, 2, 'Fizz', 4, 'Buzz', 'Fizz', 7, 8, 'Fizz', 'Buzz', 11, 'Fizz', 13, 14, 'Fizz', 16, 17, 'Fizz', 19, 'Buzz', 'Fizz', 22, 23, 'Fizz', 'Buzz', 26, 'Fizz', 28, 29, 'Fi
z', 31, 32, 'Fizz', 34, 'Buzz', 'Fizz', 37, 38, 'Fizz', 'Buzz', 41, 'Fizz', 43, 44, 'Fizz', 46, 47, 'Fizz', 49, 'Buzz', 'Fizz', 52, 53, 'Fizz', 'Buzz', 56, 'Fizz', 58, 59, 'Fi
zz', 61, 62, 'Fizz', 64, 'Buzz', 'Fizz', 67, 68, 'Fizz', 'Buzz', 71, 'Fizz', 73, 74, 'Fizz', 76, 77, 'Fizz', 79, 'Buzz', 'Fizz', 82, 83, 'Fizz', 'Buzz', 86, 'Fizz', 88, 89, 'F
izz', 91, 92, 'Fizz', 94, 'Buzz', 'Fizz', 97, 98, 'Fizz', 'Buzz']

```

## Control Statements While Loop:

```

➡ var i = 1;

while(i<2) {
  console.log(i);
  i++;
}

```

## Code:

```
var output = [];  
var count = 1;  
  
function fizzBuzz(){  
  
    //Write code here  
    while(count<=100){  
        if(count%3 === 0){  
            output.push("Fizz");  
        }  
        else if(count%5 === 0){  
            output.push("Buzz");  
        }  
        else if(count%3 === 0 && count%5 === 0){  
            output.push("FizzBuzz");  
        }  
        else{  
            output.push(count);  
        }  
        count++  
    }  
    console.log(output);  
  
}  
  
//Function Call
```

fizzBuzz();

```
> var output = [];
var count = 1;

function fizzBuzz(){
  //Write code here
  while(count<=100){
    if(count%3 === 0){
      output.push("Fizz");
    }
    else if(count%5 === 0){
      output.push("Buzz");
    }
    else if(count%3 === 0 && count%5 === 0){
      output.push("FizzBuzz");
    }
    else{
      output.push(count);
    }
    count++;
  }
  console.log(output);
}

//Function Call
fizzBuzz();

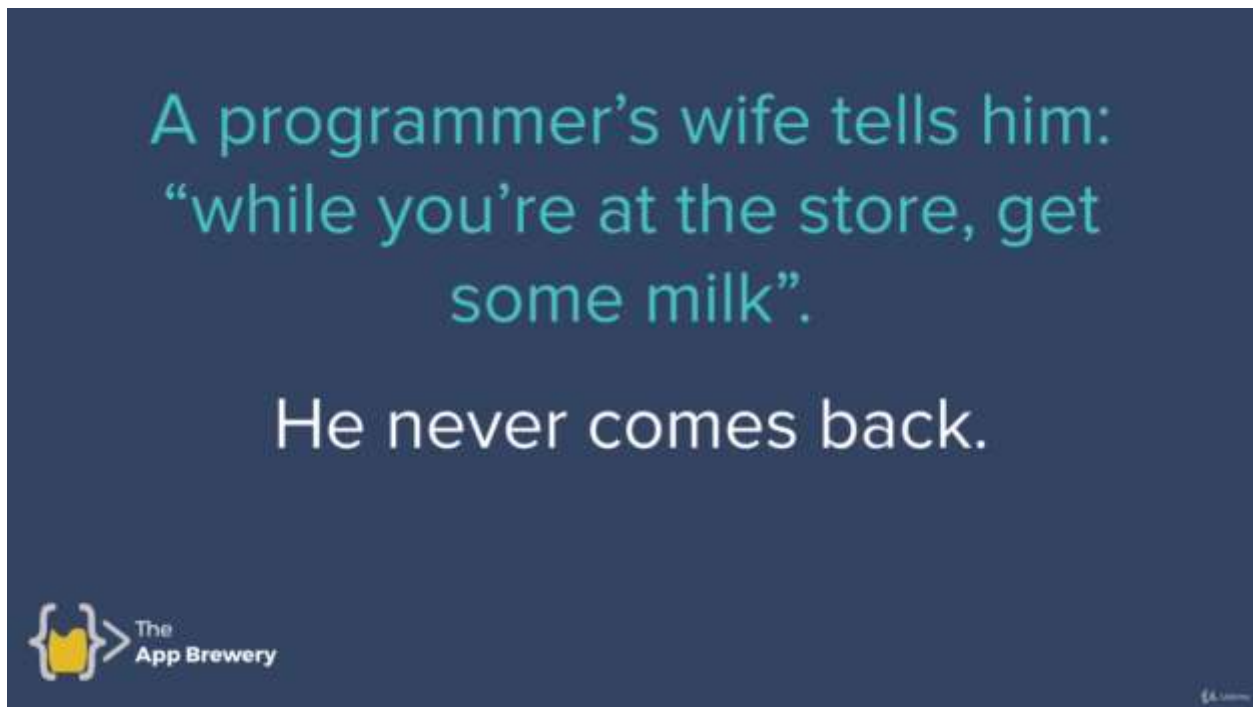
(100) [1, 2, 'Fizz', 4, 'Buzz', 'Fizz', 7, 8, 'Fizz', 'Buzz', 11, 'Fizz', 13, 14, 'Fizz', 16, 17, 'Fizz', 19, 'Buzz', 'Fizz', 22, 23, 'Fizz', 'Buzz', 26, 'Fizz', 28, 29, 'Fizz', 31, 32, 'Fizz', 34, 'Buzz', 'Fizz', 37, 38, 'Fizz', 'Buzz', 41, 'Fizz', 43, 44, 'Fizz', 46, 47, 'Fizz', 49, 'Buzz', 'Fizz', 52, 53, 'Fizz', 'Buzz', 56, 'Fizz', 58, 59, 'Fizz', 61, 62, 'Fizz', 64, 'Buzz', 'Fizz', 67, 68, 'Fizz', 'Buzz', 71, 'Fizz', 73, 74, 'Fizz', 76, 77, 'Fizz', 79, 'Buzz', 'Fizz', 82, 83, 'Fizz', 'Buzz', 86, 'Fizz', 88, 89, 'Fizz', 91, 92, 'Fizz', 94, 'Buzz', 'Fizz', 97, 98, 'Fizz', 'Buzz']
undefined
```

```
> var output = [];
var count = 1;

function fizzBuzz(){
  //Write code here
  while(count<=100){
    if(count%3 === 0){
      output.push("Fizz");
    }
    else if(count%5 === 0){
      output.push("Buzz");
    }
    else if(count%3 === 0 && count%5 === 0){
      output.push("FizzBuzz");
    }
    else{
      output.push(count);
    }
    count++;
  }
  console.log(output);
}

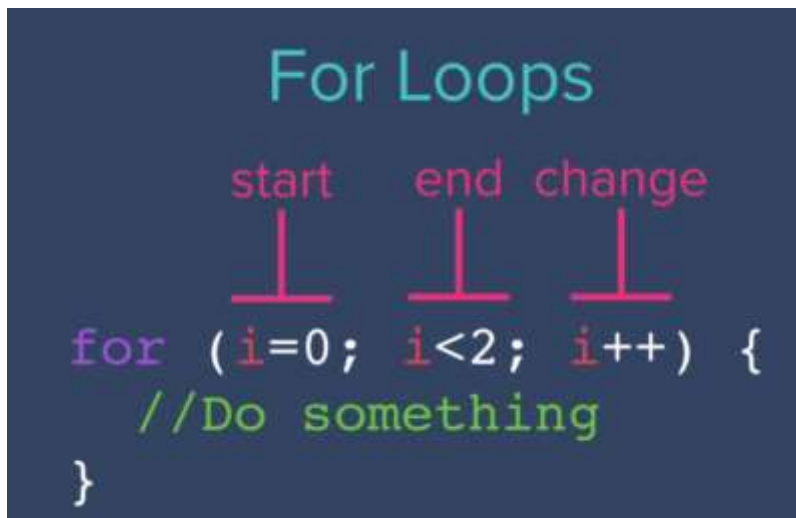
//Function Call
fizzBuzz();
```

## Infinite Loop:



<http://www.99-bottles-of-beer.net/lyrics.html>

## Control Statements for Loop:



```
for(var i = 1; i<2) {  
    console.log(i);  
    i++;  
}  
  
for(var i = 1; i<2; i++) {  
    console.log(i);  
}
```

## Code:

```
var output = [];
```

```
var count = 1;
```

```
function fizzBuzz(){
```

```
    //Write code here
```

```
    for(count; count<=100; count++){
```

```
        if(count%3 === 0){
```

```
            output.push("Fizz");
```

```
        }
```

```
        else if(count%5 === 0){
```

```
            output.push("Buzz");
```

```
        }
```

```
        else if(count%3 === 0 && count%5 === 0){
```

```
            output.push("FizzBuzz");
```

```
        }
```

```
        else{
```

```
            output.push(count);
```

```
        }
```

```
}  
  console.log(output);  
}
```

//Function Call

```
fizzBuzz();
```

```
while (something is true) {  
  //Do something  
}
```

State

```
for (i=0; i<2; i++) {  
  //Do something  
}
```

Iterate

