

Basic Foundation 1

① Get 1 to 255

```
function a() {  
  var arr = [];  
  for (var i = 1; i <= 255; i++) {  
    arr.push(i);  
  }  
  return arr;  
}
```

② function sumEvens()

```
{  
  var sum = 0;  
  for (var i = 1; i <= 100; i++) {  
    if (i % 2 === 0) {  
      sum += i;  
    }  
  }  
  return sum;  
}
```

③ function sumOdds()

```
{  
  var sum = 0;  
  for (var i = 1; i <= 500; i++) {  
    if (i % 2 === 1) {  
      sum += i;  
    }  
  }  
  return sum;  
}
```

④ function iterate(arr)

```
{  
  var sum = 0;  
  for (var i = 0; i < arr.length; i++) {  
    sum = sum + arr[i];  
  }  
  return sum;  
}
```

⑤ function findMax(arr)

```
{  
  var max = arr[0];  
  for (var i = 1; i < arr.length; i++) {  
    if (max < arr[i]) {  
      max = arr[i];  
    }  
  }  
  return max;  
}
```

⑥ function average(arr)

```
{  
  var sum = 0;  
  for (var i = 0; i < arr.length; i++) {  
    sum = sum + arr[i];  
  }  
  var avg = sum / arr.length;  
  return avg;  
}
```

⑫ function swap(arr)

```
{  
  var temp = arr[0];  
  arr[0] = arr[arr.length - 1];  
  arr[arr.length - 1] = temp;  
  return arr;  
}
```

⑦ function odd()

```
{  
  var array = [];  
  for (var i = 1; i <= 50; i++) {  
    if (i % 2 !== 0) {  
      array.push(i);  
    }  
  }  
  return array;  
}
```

⑧ function greatest(arr, y)

```
{  
  var count = 0;  
  for (var i = 0; i < arr.length; i++) {  
    if (arr[i] > y) {  
      count++;  
    }  
  }  
  return count;  
}
```

⑨ function square(arr)

```
{  
  for (var i = 0; i < arr.length; i++) {  
    arr[i] = arr[i] * arr[i];  
  }  
  return arr;  
}
```

⑩ function negative(arr)

```
{  
  for (var i = 0; i < arr.length; i++) {  
    if (arr[i] < 0) {  
      arr[i] = 0;  
    }  
  }  
  return arr;  
}
```

⑪ function maxMinAvg(arr)

```
{  
  var max = arr[0];  
  var min = arr[0];  
  var sum = arr[0];  
  for (var i = 1; i < arr.length; i++) {  
    if (arr[i] > max) {  
      max = arr[i];  
    }  
    if (arr[i] < min) {  
      min = arr[i];  
    }  
    sum = sum + arr[i];  
  }  
  var avg = sum / arr.length;  
  var arrnew = [max, min, avg];  
  return arrnew;  
}
```

⑬ function numstring(arr)

```
{  
  for (var i = 0; i < arr.length; i++) {  
    if (arr[i] < 0) {  
      arr[i] = "Dojo";  
    }  
  }  
  return arr;  
}
```