

```
let arr = []; // This variable will hold the array for this programming challenge.  
let evens = 0; // This will hold the number of even numbers in the array.  
let odds = 0; // This will hold the number of odd numbers in the array.  
let avg = 0; // This will hold the average of the numbers in the array.
```

```
// generates a random number between 25 and 50 as the length of the array  
const randy = Math.floor(Math.random() * 26) + 25;
```

```
// gives the array values  
for (let i1 = 0; i1 < randy; i1++) {  
  // generate random number between 1 and 10 then push it to the array  
  arr.push(Math.floor(Math.random() * 10) + 1);  
}
```

```
//number of even and odd numbers in the array  
for (let i2 = 0; i2 < arr.length; i2++) {  
  // Anything with a remainder of 0 when divided by 2 is an even number.  
  // Anything from the array that isn't an even number must be an odd number.  
  if (arr[i2] % 2 == 0) {  
    evens += 1;  
  } else {  
    odds += 1;  
  }  
  avg += arr[i2]; // This holds the sum of all of the numbers from the array arr.  
}
```

```
// This assigns avg the average of all of the numbers from the array by dividing the  
// sum of all of those numbers by the length of the array.  
avg /= arr.length;
```

```
console.log(arr);      // logs the array to the console  
console.log(evens);    // logs the number of even numbers in the array to the console  
console.log(odds);     // logs the number of odd numbers in the array to the console  
console.log(arr.length); // logs the length of the array to the console
```

```
console.log(avg.toFixed(2)); // logs average of the array's numbers with 2 decimal places showing
```