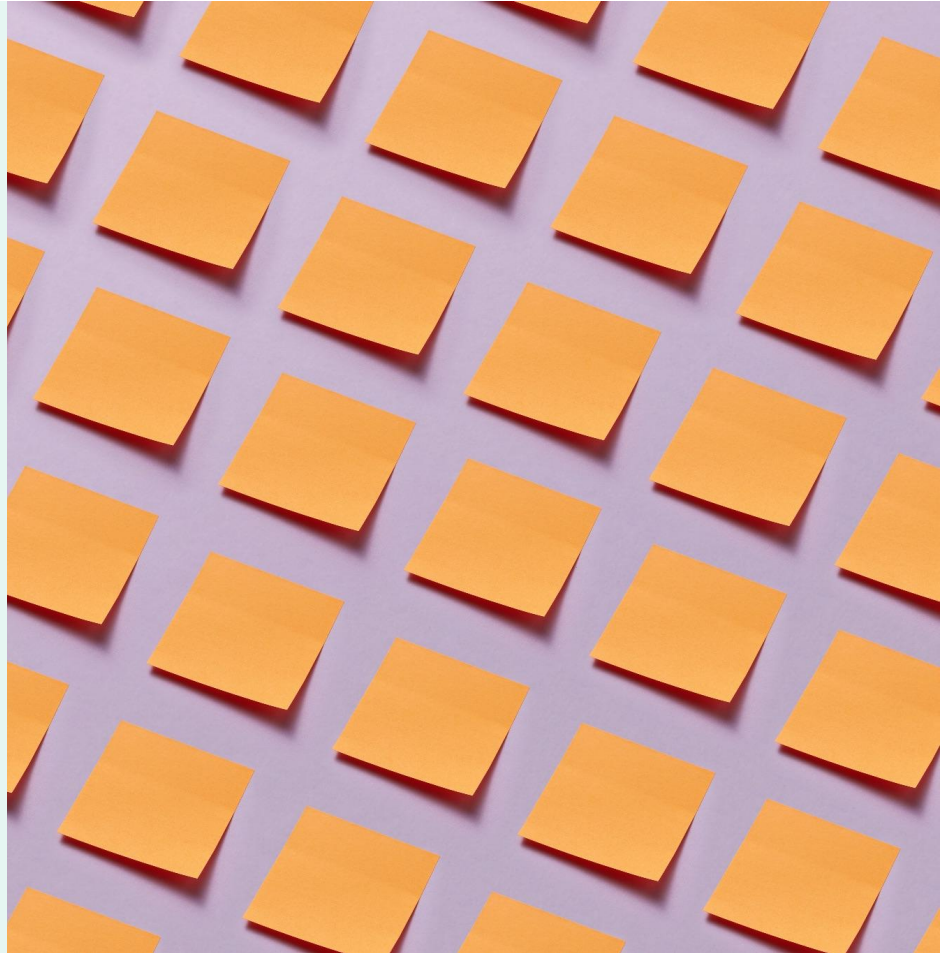


Arrays

By Pranjal Nadhani



Using a list of things

```
let day1 = "Sunday";  
let day2 = "Monday";  
let day3 = "Tuesday";  
let day4 = "Wednesday";  
let day5 = "Thursday";  
let day6 = "Friday";  
let day7 = "Saturday";
```

Using a list of things

```
console.log(day1);  
// Sunday  
console.log(day2);  
// Monday  
console.log(day3);  
// Tuesday  
console.log(day4);  
// Wednesday  
console.log(day5);  
// Thursday  
console.log(day6);  
// Friday  
console.log(day7);  
// Saturday
```

Using a list of things

```
function nameOfDay(num) {  
  switch (num) {  
    case 1:  
      return day1;  
    case 2:  
      return day2;  
    case 3:  
      return day3;  
    case 4:  
      return day4;  
    case 5:  
      return day5;  
    case 6:  
      return day6;  
    case 7:  
      return day7;  
  
    default:  
      return null;  
  }  
}
```

```
let day1 = "Sunday";  
let day2 = "Monday";  
let day3 = "Tuesday";  
let day4 = "Wednesday";  
let day5 = "Thursday";  
let day6 = "Friday";  
let day7 = "Saturday";
```

CAN BE WRITTEN AS



```
const days = [  
  "Sunday",  
  "Monday",  
  "Tuesday",  
  "Wednesday",  
  "Thursday",  
  "Friday",  
  "Saturday",  
];
```

```
console.log(day1);  
// Sunday  
console.log(day2);  
// Monday  
console.log(day3);  
// Tuesday  
console.log(day4);  
// Wednesday  
console.log(day5);  
// Thursday  
console.log(day6);  
// Friday  
console.log(day7);  
// Saturday
```

CAN BE WRITTEN AS



```
for (const day of days) {  
  console.log(day);  
}  
// Sunday  
// Monday  
// Tuesday  
// Wednesday  
// Thursday  
// Friday  
// Saturday
```

```
function nameOfDay(num) {  
  switch (num) {  
    case 1:  
      return day1;  
    case 2:  
      return day2;  
    case 3:  
      return day3;  
    case 4:  
      return day4;  
    case 5:  
      return day5;  
    case 6:  
      return day6;  
    case 7:  
      return day7;  
  
    default:  
      return null;  
  }  
}
```

CAN BE WRITTEN AS

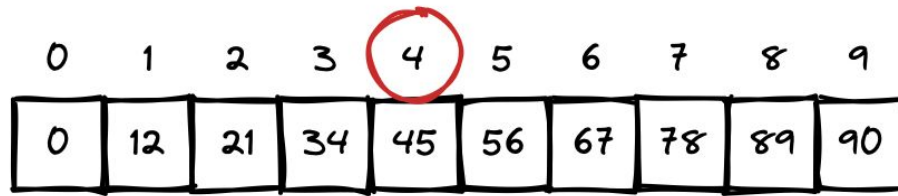


```
days[num - 1];
```

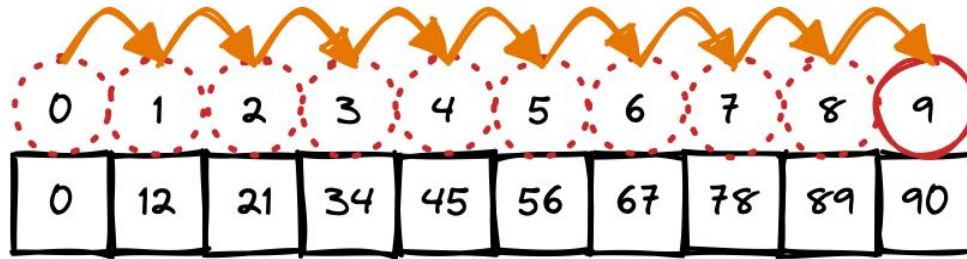
0x05	SUNDAY
0x06	MONDAY
0x07	TUESDAY
0x08	WEDNESDAY
0x09	THURSDAY
0x0A	FRIDAY
0x0B	SATURDAY

0	1	2	3	4	5	6	7	8	9
0	12	21	34	45	56	67	78	89	90

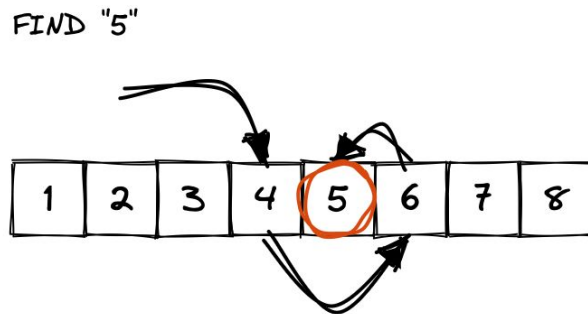
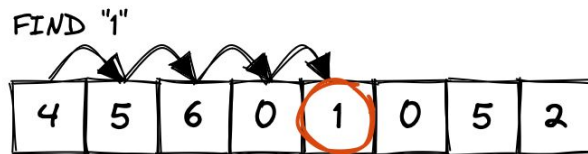
```
const fourthDay = nums[4];
```



```
for (const num of nums) {  
  console.log(num);  
}
```



```
function linearSearch(A, target) {  
  for (let i = 0; i < A.length; i++) {  
    if (A[i] === target) {  
      return i;  
    }  
  }  
  
  return -1;  
}
```



```
function binarySearch(A, target) {  
  let start = 0;  
  let end = A.length - 1;  
  
  while (start <= end) {  
    const mid = Math.floor((start + end) / 2);  
  
    if (A[mid] === target) {  
      return mid;  
    } else if (A[mid] > target) {  
      end = mid - 1;  
    } else {  
      start = mid + 1;  
    }  
  }  
  
  return -1;  
}
```