## ARRAYS MAP

https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global\_Objects/Array

```
JS ArraysMapDemo.js U X
Javascript > Lecture_34 > JS ArraysMapDemo.js > ...
       // node ArraysMapDemo
       // Map takes as input a callback function (with v(value) and i(index))
       // our function given to the map function is a callback function to this map function
       // map will call the callback multiple times (once for each value)
       // callback will process the value and index and return a single value
  9
 10
                                                 Jusing arrow function

Jet squr=urr.map(v=>v*v);

console.log(squrr)
       let arr = [2, 5, 9, 8, 15, 11, 6];
       let sqarr = arr.map(function (v, i){
           console.log(v + "@" + i);
            return v * v;
 16
       });
       console.log(sqarr);
 PROBLEMS
             OUTPUT
                                   DEBUG CONSOLE
                       TERMINAL
→ Lecture_34 git:(main) x node ArraysMapDemo.js
5@1
9@2
803
15@4
11@5
6@6
  4, 25, 81, 64,
225, 121, 36
   Lecture_34 git:(main) x
```

https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global\_Objects/Array/map

```
JS ArraysMapDemo_2.js U X
Javascript > Lecture_34 > Js ArraysMapDemo_2.js > Ø iarr > ♦ arr.map() callback
       let arr = [
           "Harry Potter",
           "Severus Snape",
           "Lily Evans",
           "Ronald Weasely",
           "Albus Dumbledore",
           "Dean Thomas",
           "Draco Malfoy"
       let iarr = arr.map(function(v, i){
           console.log(v + "@" + i);
 12
           let names = v.split(" ");
           console.log(names);
           let ans = names[0][0] + ". " + names[1][0] + ".";
           return ans;
       });
       console.log(iarr);
```

```
→ Lecture_34 git:(main) x node ArraysMapDemo_2.js
Harry Potter@ 0
[ 'Harry', 'Potter' ]
Severus Snape@ 1
[ 'Severus', 'Snape' ]
Lily Evans@ 2
[ 'Lily', 'Evans' ]
Ronald Weasely@ 3
[ 'Ronald', 'Weasely' ]
Albus Dumbledore@ 4
[ 'Albus', 'Dumbledore' ]
Dean Thomas@ 5
[ 'Dean', 'Thomas' ]
Draco Malfoy@ 6
[ 'Draco', 'Malfoy' ]
[
    'H. P.', 'S. S.',
    'L. E.', 'R. W.',
    'A. D.', 'D. T.',
    'D. M.'
]
→ Lecture_34 git:(main) x □
```

```
Javascript > Lecture_34 > Js ArraysMapDemo_3.js > ...
           let arr = [2, 19, 34, 72, 11, 64, 55, 98];
      1
      2
           let barr = arr.map(function(v, i){
      3
                if(v % 2 == 0){
      4
      5
                     return true;
      6
                }else{
                                     let barr = arr. map (
      7
                     return false;
      8
      9
           });
    10
                                       V ⇒ V ·/·2 ==0);
           console.log(barr);
    11
    PROBLEMS
                  OUTPUT
                             TERMINAL
                                           DEBUG CONSOLE
       Lecture_34 git:(main) x node ArraysMapDemo_3.js
      true, false,
      true, true,
      false, true,
      false, true
       Lecture_34 git:(main) x
                                        Keal life examp
75
                                                 tunction in hackerrank
    async function handlePage(browser, page) {
76
                                                      automation
       await page.waitForSelector("a.backbone.block-center");
78
79
       let curls = await page.$$eval("a.backbone.block-center", function (atags) {
81
          // for (let i = 0; i < atags.length; i++) {</pre>
82
                let url = atags[i].getAttribute("href");
83
                urls.push(url);
86
87
          let urls = atags.map(function(atag, i){
             return atag.getAttribute("href");
          return urls;
       });
```