

File Edit Selection View Go Run Terminal Help problem_6.js - divide_and_conquerer_technique_binary_search_problem_6 - Visual Studio Code

EXPLORER ... **problem_6.js** U

DIVIDE_AND_CONQUERER... **problem_6.js** U

problem_6.js > searchAlog

```
1 // #6. DS & Algorithm Course -- | Divide & Conquerer Technique | Binary Search:-  
2  
3 // Divide & Conquerer Techique.  
4 // Find the index of given number in a sorted array?  
5 // [1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15] --> input  
6 // 6 --> output  
7  
8 function searchAlog(array, number) {  
9     let min = 0;  
10    let max = array.length - 1;  
11    while (min <= max) {  
12        let midIndex = Math.floor((min + max) / 2);  
13        if (array[midIndex] < number) {  
14            min = midIndex + 1;  
15        } else if (array[midIndex] > number) {  
16            max = midIndex - 1;  
17        } else {  
18            return midIndex;  
19        }  
20    }  
21    return -1;  
22}  
23 const result = searchAlog([1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15], 7);  
24 console.log("Divide & Conquerer Techique", result);  
25
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

PS E:\Users\Public\Github + Hosting\DS & Algorithms Course by Technical Suneja\divide_and_conquerer_technique_binary_search_problem_6> node "e:\Users\Public\Github + Hosting\DS & Algorithms Course by Technical Suneja\divide_and_conquerer_technique_binary_search_problem_6\problem_6.js"
Divide & Conquerer Techique 6

Ln 17, Col 17 Spaces: 4 UTF-8 CRLF {} Babel JavaScript ✓ Prettier

File Edit Selection View Go Run Terminal Help problem_6.js - divide_and_conquerer_technique.binary_search_problem_6 - Visual Studio Code

EXPLORER ... JS problem_6.js X

DIVIDE_AND_CONQUERER... JS problem_6.js > ...

```
7
8     function searchAlog(array, number) {
9         let min = 0;
10        let max = array.length - 1;
11        while (min <= max) {
12            let midIndex = Math.floor((min + max) / 2);
13            if (array[midIndex] < number) {
14                min = midIndex + 1;
15            } else if (array[midIndex] > number) {
16                max = midIndex - 1;
17            } else {
18                return midIndex;
19            }
20        }
21        return -1;
22    }
23 const result = searchAlog([1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15], 7);
24 console.log("Divide & Conquerer Technique", result);
25
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

PS E:\Users\Public\Github + Hosting\DS & Algorithms Course by Technical Suneja\divide_and_conquerer_technique_binary_search_problem_6> node "e:\Users\Public\Github + Hosting\DS & Algorithms Course by Technical Suneja\divide_and_conquerer_technique_binary_search_problem_6\problem_6.js"

> OUTLINE > TIMELINE Divide & Conquerer Technique 6

Ln 62, Col 29 Spaces: 4 UTF-8 CRLF {} Babel JavaScript ✓ Prettier