



Vizle
freeCodeCamp (🔥)



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```
function cube(n) {  
  for (let i = 0; i < n; i++) {  
    for (let j = 0; j < n; j++) {  
      for (let k = 0; k < n; k++) {  
        console.log(i, j, k);  
      }  
    }  
  }  
}
```

$O(n^3)$

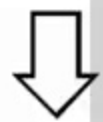


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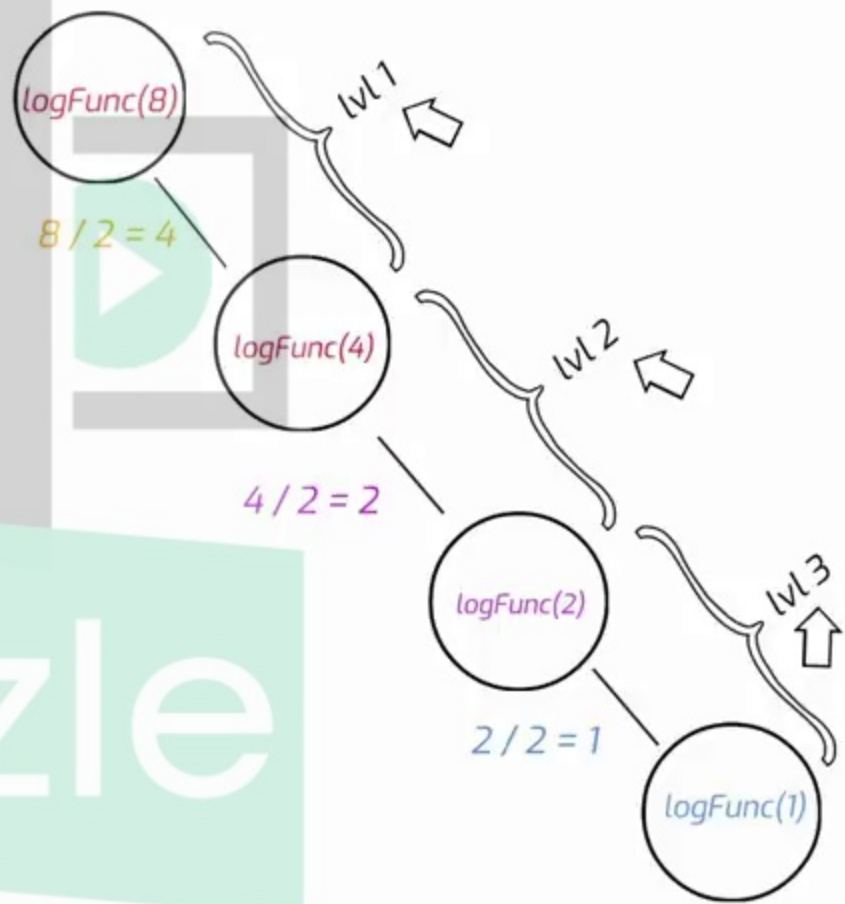
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example:



n = 8



```
6 function logFunc(n) {  
5       
4     n = Math.floor(n / 2);  
3     return logFunc(n);  
2 }
```



?[?] = 8
2[?] = 8

Log base 2 of 8 is
Log₂ 8 = 3

2³ = 2 × 2 × 2 = 8



```
let arr = [1, 2, 3, 4, 5, 6, 7, 8];
let start = 0;
let end = arr.length - 1;
let target = 8;

function binarySearch(arr, start, end, target) {
  let midIndex = Math.floor((start + end) / 2);
  if (arr[midIndex] === target) return true;
}
```



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