

# Dropping Non-Dominant Terms

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The big idea:

When calculating Big O we dispose of all but the most impactful terms. This previously used example of an  $O(N^2)$  algorithm has an  $O(N)$  instruction appended to the end of it.

```
1  logArray([1,2,3,4,5])
2
3  function logArray(arr){
4      for(let i=0; i<arr.length; i++){
5          console.log(arr[i])
6          for(let j=0; j<arr.length; j++){
7              console.log('i: ', arr[i], 'j: ', arr[j])
8          }
9      }
10     for(let i=0; i<arr.length; i++){
11         console.log(arr[i])
12     }
13 }
```