

$O(\text{arrA} * \text{arrB})$

Quadratic Complexity. The inner loop has $O(\text{arrB})$ iterations and is called arrA times. This makes the runtime $O(\text{arrA} * \text{arrB})$ or abstracted as $O(N * M)$

```
1  function logPairs(arrA, arrB) {  
2      for (let i = 0; i < arrA.length; i++) {  
3          for (let j = 0; j < arrB.length; j++) {  
4              for (let k = 0; k < 100000; k++) {  
5                  console.log("i: ", arrA[i], "j: ", arrB[j])  
6              }  
7          }  
8      }  
9  }
```