

## 6031. Find All K-Distant Indices in an Array

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You are given a **0-indexed** integer array `nums` and two integers `key` and `k`. A **k-distant index** is an index `i` of `nums` for which there exists at least one index `j` such that  $|i - j| \leq k$  and `nums[j] == key`.

Return a list of all *k-distant indices* sorted in **increasing order**.

### Example 1:

**Input:** `nums = [3,4,9,1,3,9,5]`, `key = 9`, `k = 1`

**Output:** `[1,2,3,4,5,6]`

**Explanation:** Here, `nums[2] == key` and `nums[5] == key`.

- For index 0,  $|0 - 2| > k$  and  $|0 - 5| > k$ , so there is no `j` where  $|0 - j| \leq k$  and `nums[j] == key`. Thus, 0 is not a *k-distant index*.
  - For index 1,  $|1 - 2| \leq k$  and `nums[2] == key`, so 1 is a *k-distant index*.
  - For index 2,  $|2 - 2| \leq k$  and `nums[2] == key`, so 2 is a *k-distant index*.
  - For index 3,  $|3 - 2| \leq k$  and `nums[2] == key`, so 3 is a *k-distant index*.
  - For index 4,  $|4 - 5| \leq k$  and `nums[5] == key`, so 4 is a *k-distant index*.
  - For index 5,  $|5 - 5| \leq k$  and `nums[5] == key`, so 5 is a *k-distant index*.
  - For index 6,  $|6 - 5| \leq k$  and `nums[5] == key`, so 6 is a *k-distant index*.
- Thus, we return `[1,2,3,4,5,6]` which is sorted in increasing order.

### Example 2:

**Input:** `nums = [2,2,2,2,2]`, `key = 2`, `k = 2`

**Output:** `[0,1,2,3,4]`

**Explanation:** For all indices `i` in `nums`, there exists some index `j` such that  $|i - j| \leq k$  and `nums[j] == key`. Hence, we return `[0,1,2,3,4]`.

### Constraints:

- $1 \leq \text{nums.length} \leq 1000$
- $1 \leq \text{nums}[i] \leq 1000$
- `key` is an integer from the array `nums`.
- $1 \leq k \leq \text{nums.length}$

JavaScript




```
1 const findKDistantIndices = (a, key, k) => {
```

```
2    let n = a.length, res = [], d = [];  
3    for (let i = 0; i < n; i++) {  
4        if (a[i] == key) d.push(i);  
5    }  
6    for (let i = 0; i < n; i++) {  
7        for (const j of d) {  
8            if (Math.abs(i - j) <= k) {  
9                res.push(i);  
10               break;  
11           }  
12       }  
13   }  
14   return res;  
15 };
```

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