

6270. Take K of Each Character From Left and Right

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You are given a string `s` consisting of the characters `'a'`, `'b'`, and `'c'` and a non-negative integer `k`. Each minute, you may take either the **leftmost** character of `s`, or the **rightmost** character of `s`.

Return the **minimum** number of minutes needed for you to take **at least** `k` of each character, or return `-1` if it is not possible to take `k` of each character.

User Accepted:	0
User Tried:	0
Total Accepted:	0
Total Submissions:	0
Difficulty:	Medium

Example 1:

Input: `s = "aabaaaacaabc", k = 2`
Output: `8`
Explanation:
Take three characters from the left of `s`. You now have two `'a'` characters, and one `'b'` character.
Take five characters from the right of `s`. You now have four `'a'` characters, two `'b'` characters,
A total of $3 + 5 = 8$ minutes is needed.
It can be proven that 8 is the minimum number of minutes needed.

Example 2:

Input: `s = "a", k = 1`
Output: `-1`
Explanation: It is not possible to take one `'b'` or `'c'` so return `-1`.

Constraints:

- $1 \leq s.length \leq 10^5$
- `s` consists of only the letters `'a'`, `'b'`, and `'c'`.
- $0 \leq k \leq s.length$

JavaScript

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```
1 const ord = (c) => c.charCodeAt();
2
3 const takeCharacters = (s, k) => {
4   let n = s.length, f = [0, 0, 0], res = Number.MAX_SAFE_INTEGER;
5   for (const c of s) f[ord(c) - 97]++;
6   if (f.some(occ => occ < k)) return -1;
7   let l = -1;
8   for (let i = 0; i < n; i++) {
9     f[ord(s[i]) - 97]--;
10    while (i > l && f.some(occ => occ < k)) {
11      l++;
12      f[ord(s[l]) - 97]++;
13    }
14    if (i >= l) {
15      let lmove = l, rmove = n - i;
16      res = Math.min(res, lmove + rmove);
17    }
18  }
19  return res;
20 };
```

☐ Custom Testcase

Use Example Testcases

Run

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Submission Result: **Accepted** (/submissions/detail/865100065/) ⓘ


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