

482 License Key Formatting

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You are given a license key represented as a string *S* which consists only alphanumeric character and dashes. The string is separated into *N*+1 groups by *N* dashes.

Given a number *K*, we would want to reformat the strings such that each group contains *exactly* *K* characters, except for the first group which could be shorter than *K*, but still must contain at least one character. Furthermore, there must be a dash inserted between two groups and all lowercase letters should be converted to uppercase.

Given a non-empty string *S* and a number *K*, format the string according to the rules described above.

Example 1:

Input: *S* = "5F3Z-2e-9-w", *K* = 4

Output: "5F3Z-2E9W"

Explanation: The string *S* has been split into two parts, each part has 4 characters.

Note that the two extra dashes are not needed and can be removed.

Example 2:

Input: *S* = "2-5g-3-J", *K* = 2

Output: "2-5G-3J"

Explanation: The string *S* has been split into three parts, each part has 2 characters except the first part as it could be shorter as mentioned above.

Note:

1. The length of string *S* will not exceed 12,000, and *K* is a positive integer.
2. String *S* consists only of alphanumerical characters (a-z and/or A-Z and/or 0-9) and dashes(-).
3. String *S* is non-empty.

来自 <<https://leetcode.com/problems/license-key-formatting/description/>>

Solution for Python3:

```
1 class Solution:
2     def licenseKeyFormatting(self, S, K):
3         """
4         :type S: str
5         :type K: int
6         :rtype: str
7         """
```

```

8         S = S.replace('-', '').upper()
9         st = len(S) % K or K
10        s = S[:st]
11        while st < len(S):
12            s += '-' + S[st:st+K]
13            st += K
14        return s

```

Solution for C++:

```

1  class Solution {
2  public:
3      string licenseKeyFormatting(string S, int K) {
4          string res;
5          for (auto i = S.rbegin(); i < S.rend(); i++) {
6              if (*i != '-') {
7                  if (res.size() % (K + 1) == K)
8                      res += '-';
9                  res += toupper(*i);
10             }
11         }
12         reverse(res.begin(), res.end());
13         return res;
14     }
15 };

```