Smallest window in a string containing all the characters of another string \Box

Medium Accuracy: 42.59% Submissions: 25360 Points: 4

Given two strings **S** and **P**. Find the smallest window in the **S** consisting of all the characters of **P**.

Example 1:

```
Input:
S = "timetopractice"
P = "toc"
Output:
toprac
Explanation: "toprac" is the smallest
substring in which "toc" can be found.
```

Example 2:

```
Input:
S = "zoomlazapzo"
P = "oza"
Output:
apzo
Explanation: "apzo" is the smallest
substring in which "oza" can be found.
```

Your Task:

You don't need to read input or print anything. Your task is to complete the function **smallestWindow()** which takes two string **S** and **P** as input paramters and returns the smallest window in string **S** having all the characters of the string **P**. In case there are multiple such windows of same length, return the one with the least starting index. Return "-1" in case there is no such window present.

Expected Time Complexity: O(|S|) **Expected Auxiliary Space:** 0(1)

Constraints:

 $1 \le |S|, |P| \le 10^5$

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