Search Pattern (Rabin-Karp Algorithm)

Given two strings, one is a text string and other is a pattern string. The task is to print the indexes of all the occurences of pattern string in the text string. For printing, Starting Index of a string should be taken as 1.

Example 1:

```
Input:
S = "batmanandrobinarebat", pat = "bat"
Output: 1 18
Explanation: The string "bat" occurs twice
in S, one starts are index 1 and the other
at index 18.
```

â€∢Example 2:

```
Input:
S = "abesdu", pat = "edu"
Output: -1
Explanation: There's not substring "edu"
present in S.
```

Your Task:

You don't need to read input or print anything. Your task is to complete the function **search()** which takes the string S and the string pat as inputs and returns an array denoting the start indices (1-based) of substring pat in the string S.

```
Expected Time Complexity: O(|S|^*|pat|). Expected Auxiliary Space: O(1).
```

Constraints:

```
1 <= |S| <= 10^5
1 <= |pat| < |S|
```