## BWT Searching Notes

- Don't have to store the LF mapping. A more complex algorithm (later slides) lets you compute it in O(I) time in compressed data on the fly with some extra storage.
- To find the range in the first column corresponding to a character:
  - Pre-compute array C[c] = # of occurrences in the string of characters lexicographically < c.</li>
  - Then start of the "a" range, for example, is: C["a"] + 1.
- Running time: O(|pattern|)
  - Finding the range in the first column takes O(I) time using the C array.
  - Updating the range takes O(I) time using the LF mapping.