
Algorithm Find the first non-repeating character when each character of the stream arrives

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1: function First_Non_Repeating_Char(stream)
  ▷ freq is a hashmap which stores the frequency of the characters

2:   for each character char in stream do
3:     queue.push(char)
4:     freq[char]  $\leftarrow$  freq[char] + 1                                     ▷ Assumes default frequency as 0

5:     while queue is not empty, do
6:       if freq[queue.front] > 1 then
7:         queue.pop
8:       else
9:         Break Loop

10:    if queue is not empty, then
11:      Print(queue.front)
12:    else
13:      Print(No unique character)
14:  end for

15:  return
```
