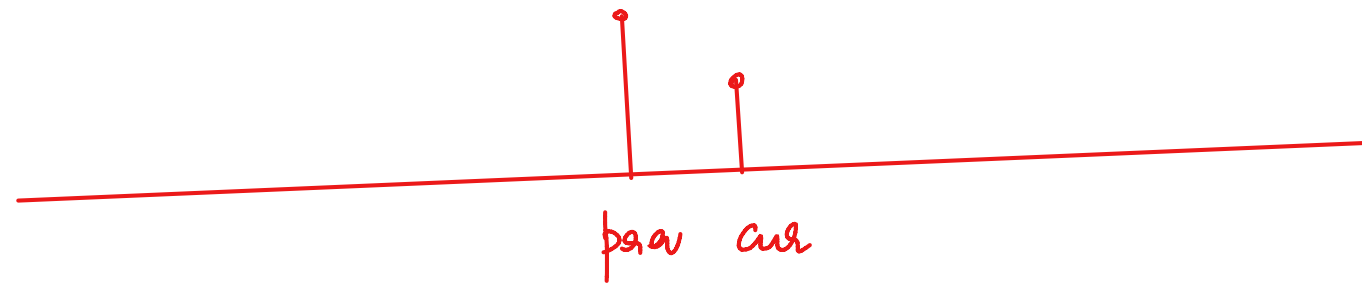


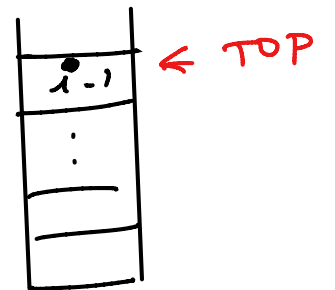
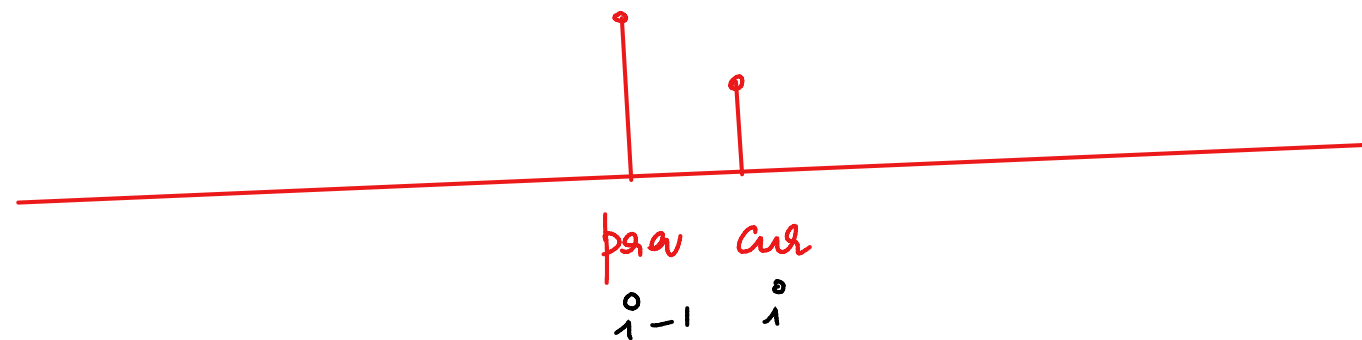
- Every index gets into the stack once
- Previous element is always on the top of stack

Case 1: The span / run / streak has ended



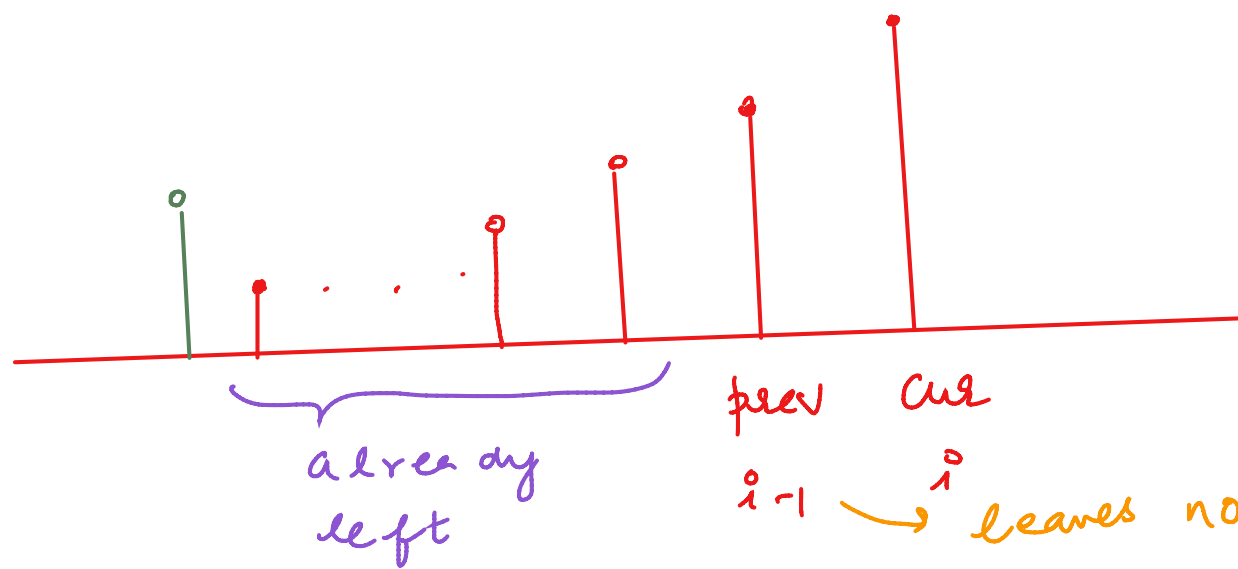
- Every index gets into the stack once
- Previous element is always on the top of stack

Case 1: The span / run / streak has ended



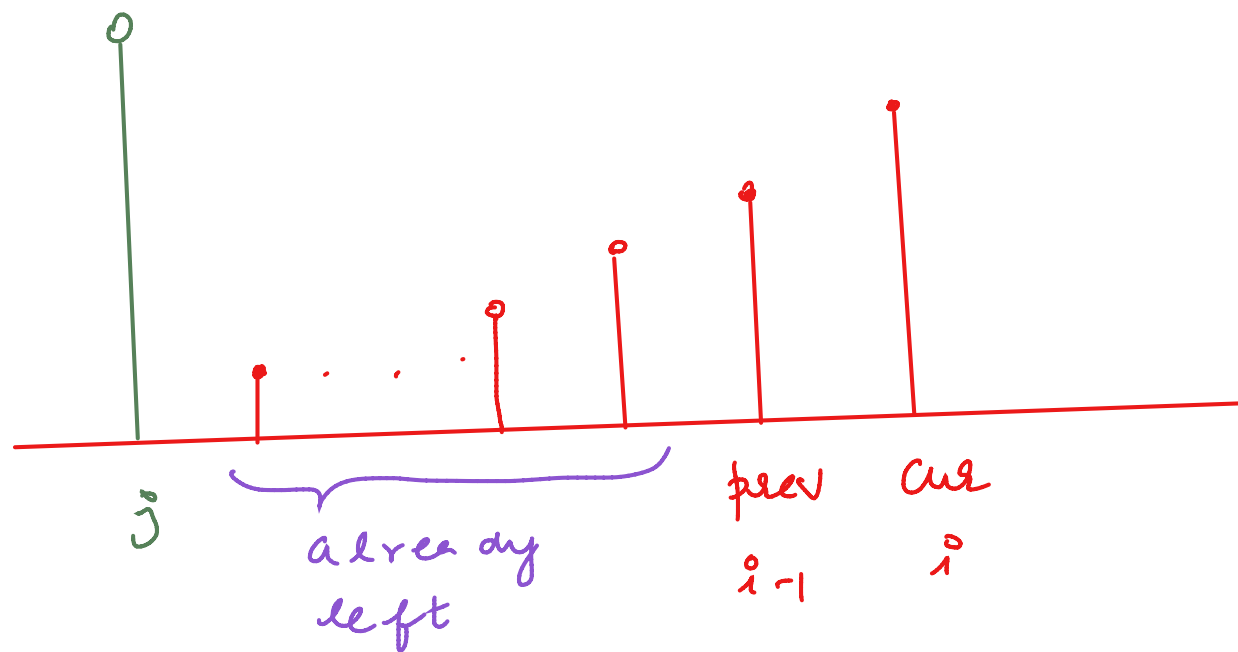
- while is not executed
- $A.top() = \text{prev element} \Rightarrow A$ is not empty
- $SC[i] = i - (i-1) = 1$

Case 2: the run/break/span continues



- * the while loop gets executed
 - + $A.pop()$ \Rightarrow the previous index left the stack (cannot come back)
 - + $A.top() = i$, one index before the start of the current streak/run/span (looking back)

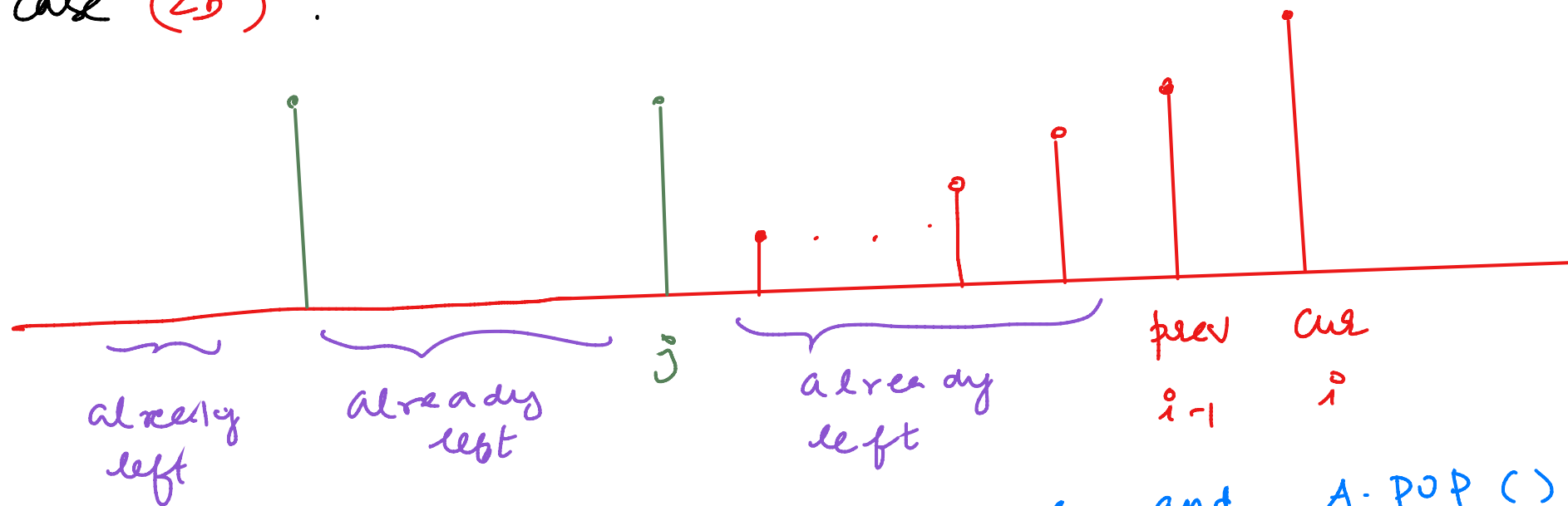
Case : the run / break / span continues
(2a)



* while loop is broken immediate

* $S[i] = i - j$

Case (2b) :



* while loop continues and $A.pop() \Rightarrow j$ leaves now.