2024

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[Awesome Compony]

2/24/2024

DSA – Stack

A computer with a screen showing binary code

Description automatically generated

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# [Shortest Subarray with OR at least k II](https://leetcode.com/problems/shortest-subarray-with-or-at-least-k-ii/description/)

## Intuition

To simulate OR operation create 32 bit array and for every binary representation of input array add the set bits

So example input is [11, 25, 1] and k = 17

So 11 + 25 = 11001 + 01011 = 12012

Also try converting 12012 to number using anything > 0 as set bit

And later use a sliding window technique

And subtract starting items from current value of all OR

Ex 12012 – 01011 = 11001 => 25

Check the length and find a minimum length subarray

## Complexity

TC - O(N)

SC – O(32) => O(1)

## [Solution](https://leetcode.com/problems/shortest-subarray-with-or-at-least-k-ii/solutions/4948082/c-java-python-2-approaches-sliding-window-binary-search-two-pointers)