First and Last Indices of an Element in a Sorted Array AhA: Get Renges

Imagine that you're given on array at # + sorket + a taget num find first & last >ndices of that number

Daly and to transce help as the lint

27 Binary Search - Can get us lay times

O Use Sinary search to About the first degit and last

- 2 Sinary searchs

Binny Search:

- Coal: Look trough sequence + determine it can item is by tout sequence or not
- Take Midpoint

 17 It higher book right
 15 It bour book left

Complexty

N site \sim each throtten reduct by with $n \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} = \frac{N}{2^h} \rightarrow N = 2^h \rightarrow N = \log_2 n$