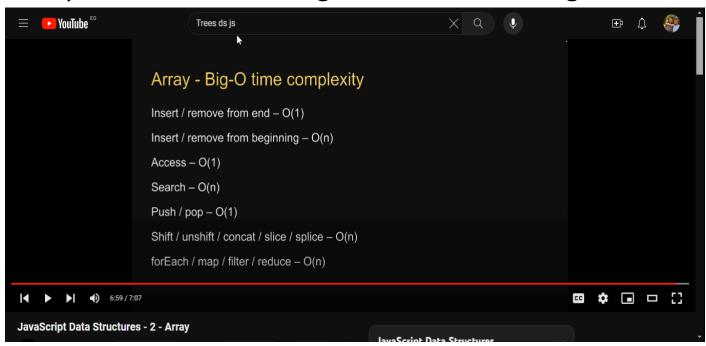
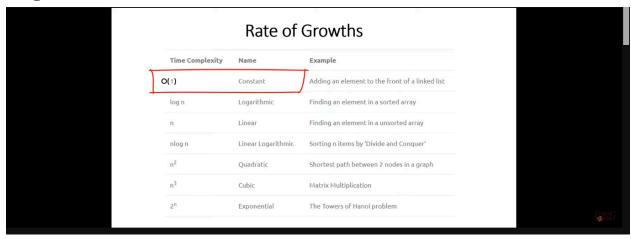
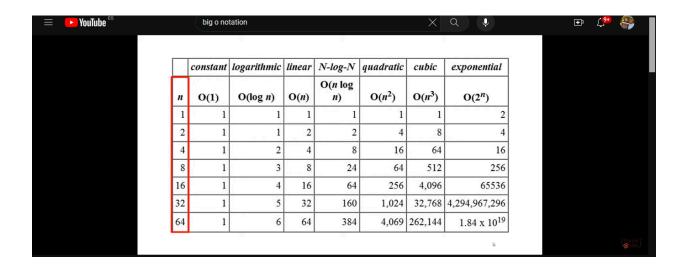
Data Structure using javascript

- 1) Data Structure is the way of store data so that it can be used efficiently
- 2) Array: -
 - 1) is resizeable don't have to declare size it's dynamic
 - 2) it iterable using for loop
 - 3) it zero index based
 - 4) it store mix of types [1,true,"Aaa"]
 - 5) shift delete from begin unshift add to begin

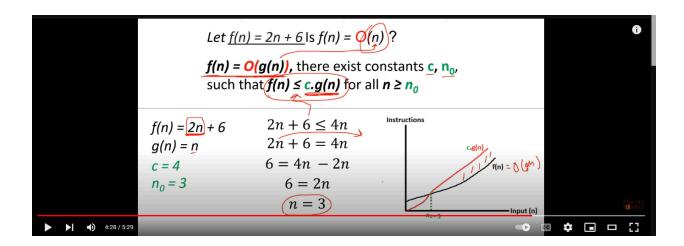


- 3) Asymptotic notation \rightarrow delete non important things \rightarrow 6n \rightarrow o(n)
- 4) Big o notation \rightarrow take the big order $2n \rightarrow O(n)$
- 5)Big o notation → worst case scenario





- 6) Rate of growth ightarrow معدل الزيادة في كل خطوة
- 7)Big omega → best case
- 8)Big theta → average case



9)