

New Section 1 Page 1

$$\begin{cases} \frac{1}{3} & \frac{$$

New Section 1 Page

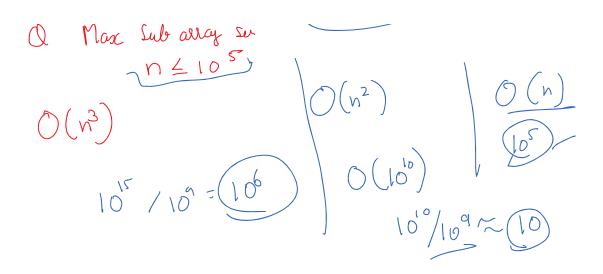
$$\int \frac{1}{\lambda}$$

$$O(1)$$
 $O(lyn)$ $O(n)$, $O(n lgln)$

$$O(n^2)$$
, $O(n^2 \log n)$, $O(n^3)$, $O(c^n)$, $O(n!)$, $O(n^n)$

$$\begin{array}{cccc}
(C \cdot C \cdot C \cdot C \cdot C) & C \cdot (C \cdot C)$$

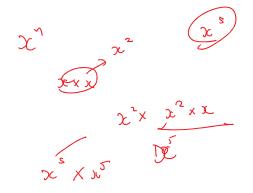


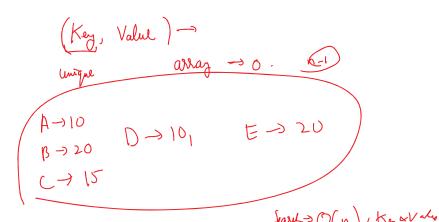


| | W \ | Bet | |
|--------|-------|------------------------------------|-----|
| Bubble | O(n2) | $\mathcal{J}(N_5) \to \mathcal{J}$ | (4) |
| Selec | 0(n2) | 2 (n2) | |
| In | 0(n2) |) 25 (v) | |
| | ~~~ | | |

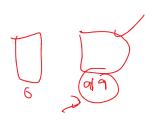
Given: $1 * x^n+2*x(n-1)+3*x(n-2)... + nx;$ solve, return number n=3;

x=7;

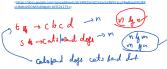




| | Jank & O(n) / Key all and |
|------|--------------------------------|
| Key | A B CD E Add > O(1) |
| V | 10 20 15/10/20 Rem gre -> O(n) |
| Valu | Upshi > O(n) |
| Hos | |







You are given an array of Integers in no particular order. Write a Program to find the longest possible sequence of consecutive numbers using the numbers from the array.

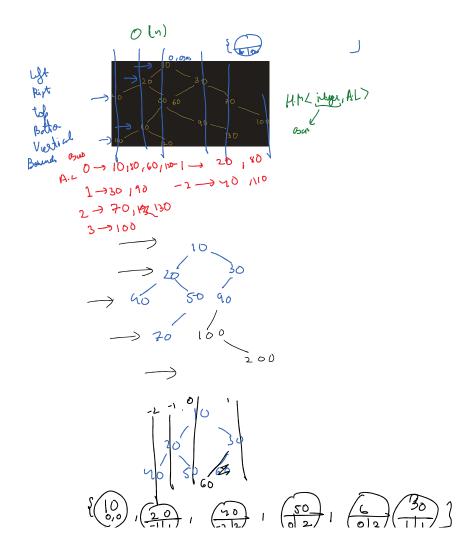
Target O(n)

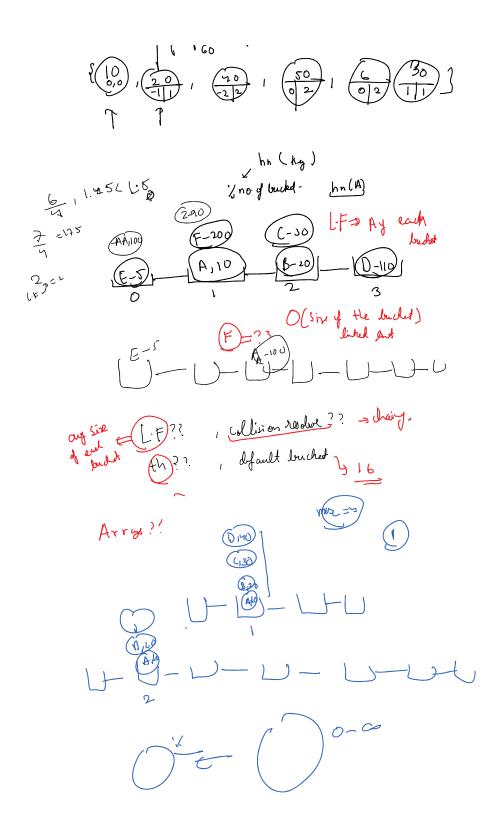
Input: [2,12,9,16,10,5,3,20,25,11,1,8,6]

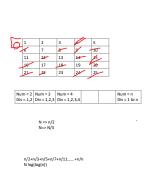
16,20,25

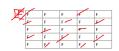


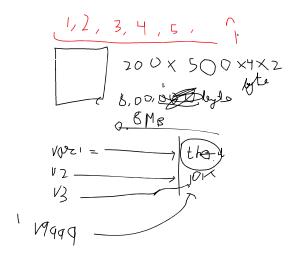
Output : [8,9,10,11,12] Input : [15,13,23,21,19,11,16] Output : [15,16]



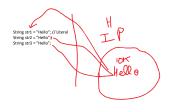




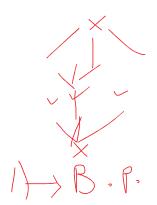




| String | n | Operation |
|--------|---|-----------|
| | 0 | 1 |
| "0" | 1 | 1+1 |
| "01" | 2 | 2+1 |
| "012" | 3 | 3+1 |
| | | |
| | | |

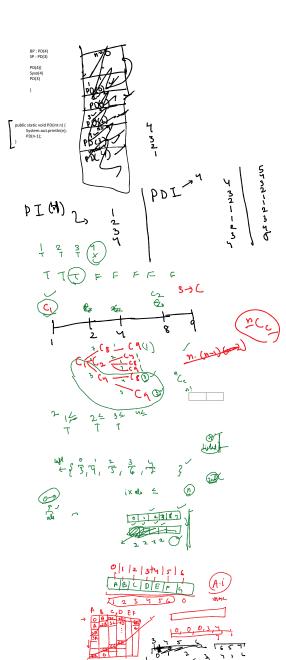


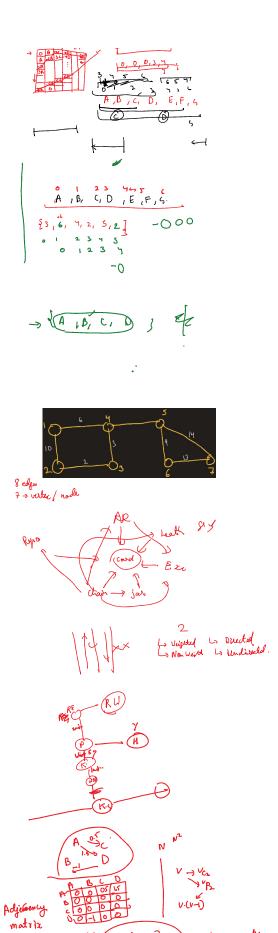
| | String | StringBuilder |
|-------------------------------------|--|--|
| Create | String str = "hello"; String str = new String("hello") | String sb = new StringBuilder("hello"); |
| Print | Syso(str) | Syso(sb) |
| Char at | str.CharAt(index) | str.CharAt(index) |
| SubStrin g | str.substring(index); | str.substring(index); // return String |
| Add Interset Update Remove | X | sb.append(""); sb.insert(index,""); char or string sb.setCharAt(index,"); sb.deleteCharAt(idx); sb.delete(including, excluding); sb.toString(); \\ return to string |



4) → Self·N Bisoln

$$\begin{array}{c} 1) \longrightarrow B \cdot P \cdot \\ 2) \longrightarrow S \cdot P \cdot \\ 3) \longrightarrow Assume \\ 4 \longrightarrow PD(4) \\ 2 \longrightarrow PD(3) \longrightarrow 3 \end{array}$$

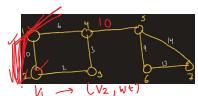




4-28; A- (1, D3,

D -> fb

Adjuny mode O(n) A > 0



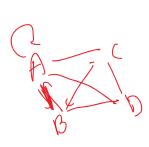
$$\begin{array}{c} N \longrightarrow (V_2, W^2) \\ 1 \longrightarrow \{(2, 10), (4, 6)\} \\ 2 \longrightarrow \{(1, 10), (3, 2)\} \\ 3 \longrightarrow \{(4, 3), (2, 2)\} \\ 4 \longrightarrow \{(1, 6), (3, 3), (5, 10)\} \\ & \swarrow V_1, N_{1}(S_1) \\ & \swarrow V_2, W_6 \end{array}$$

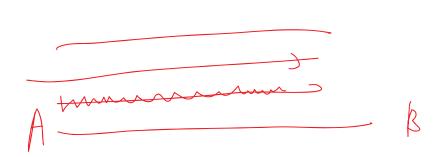
$$\begin{array}{c} 5 \longrightarrow \{(4, 10), (6, 9), (4, 14)\} \\ 6 \longrightarrow \{(5, 9), (7, 13)\} \\ 7 \longrightarrow \{(6, 13), (5, 14)\} \\ 7 \longrightarrow \{(6, 13), (5, 14)\} \\ & \swarrow V_2, W_6 \end{array}$$

$$5 \longrightarrow \{ (4,10), (6,9), (7,14) \}$$

$$6 \longrightarrow \{ (5,9), (7,13) \}$$

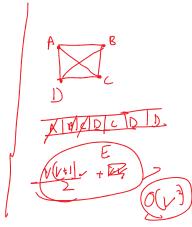
$$7 \longrightarrow \{ (6,13), (5,14) \}$$





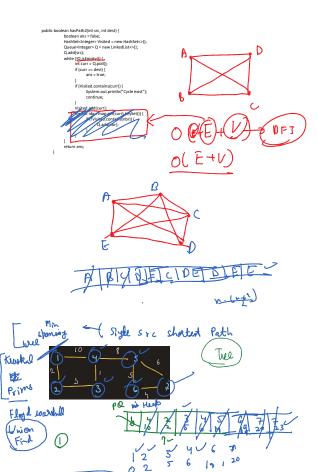
12,413,51617

BF.T ravesal



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Connected -> 1 component



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