05/01/2021 OneNote

```
Day 06
```

Tuesday, 5 January 2021 7:23 PM

Recursion calling the function by itsef

Recursion will have :

- 1. Base Case
- 2. Pre-Processing Logic (Before Recursion)
- 3. Recursion

Input : data = 8

4. Post Processing Logic (After Recursion)

Find the last index of an element in array if you are finding it rerun -1;

LI(arr, 4, 8)

LI(arr, 5, 8) (7)

LI(arr, 4, 8)

LI(arr, 4, 8)

LI(arr, 4, 8)

LI(arr, 4, 8)

LI(arr, 6, 8)

11 fits + Index

}

if (arr[si] = = dala)

ratursi

else (
Veturn firsīdum (1)

Lawreign Trees A. T & B. S. T

D+

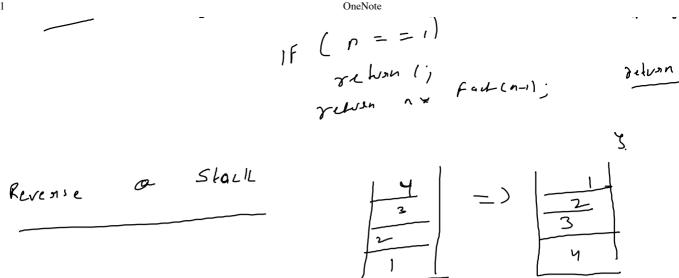
Stack

Stack

Rewasier

favoried: - 4: = hx

file ()



Write a program to reverse a stack using recursion. You are not allowed to use loop constructs like while, for..etc, and you can only use the following ADT functions on Stack S:

isEmpty(S) push(S)

pop(S)

$$\begin{bmatrix} \frac{4}{3} \\ \frac{1}{1} \end{bmatrix}$$

Input : abc
Output : a, b, c, ab, bc, ac, abc