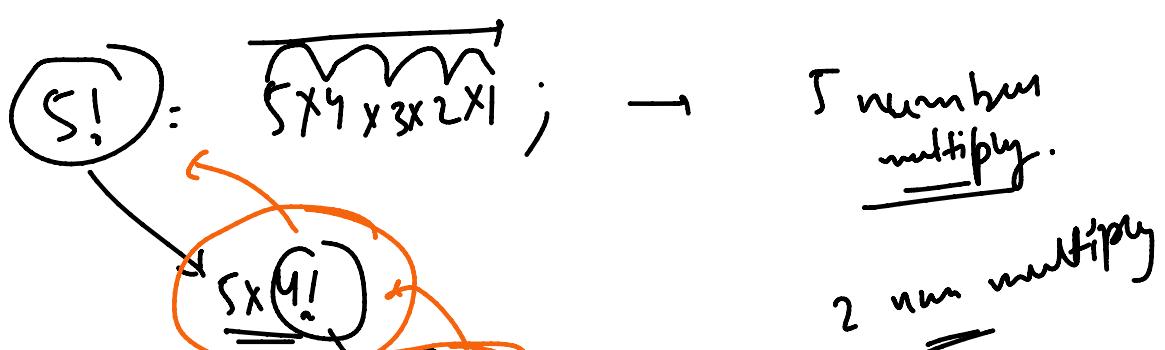
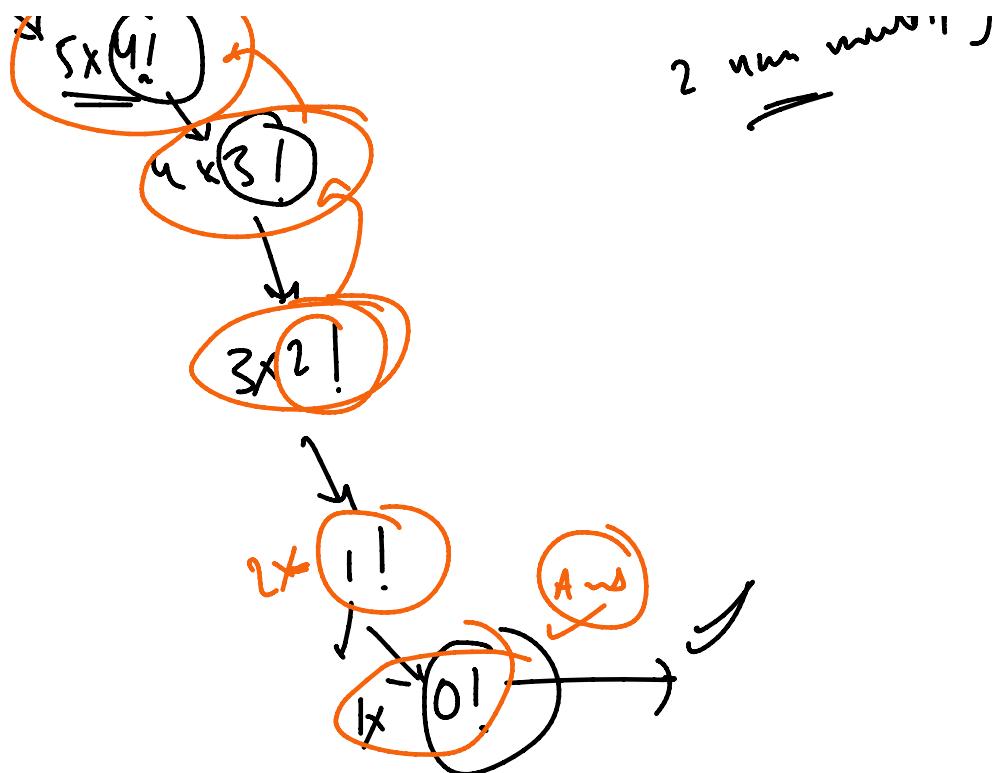


Recursion :- It is a function calling itself (directly/Indirectly) and such function is called as **recursion function**.

In recursion we try to find solution of a bigger problem (main problem) by breaking it down into similar-smaller-subproblems until/upto we cannot break it down further. That is called as **base case**. → Base case is either known to us, or very easy to calculate

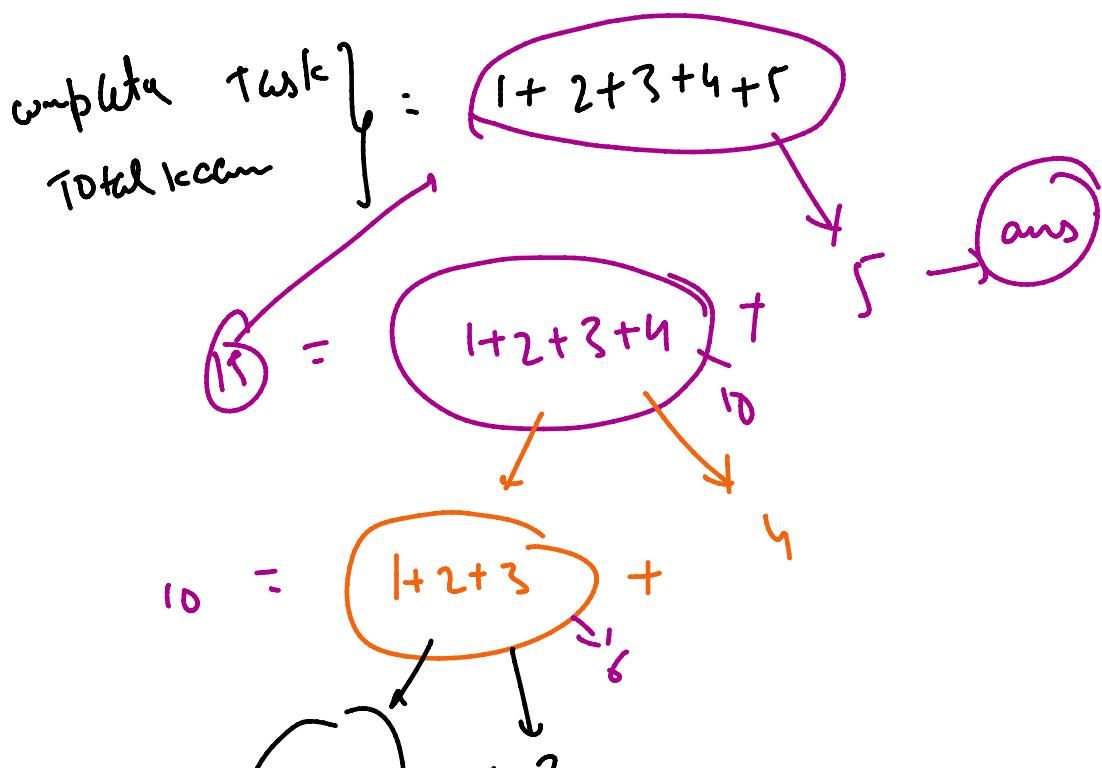


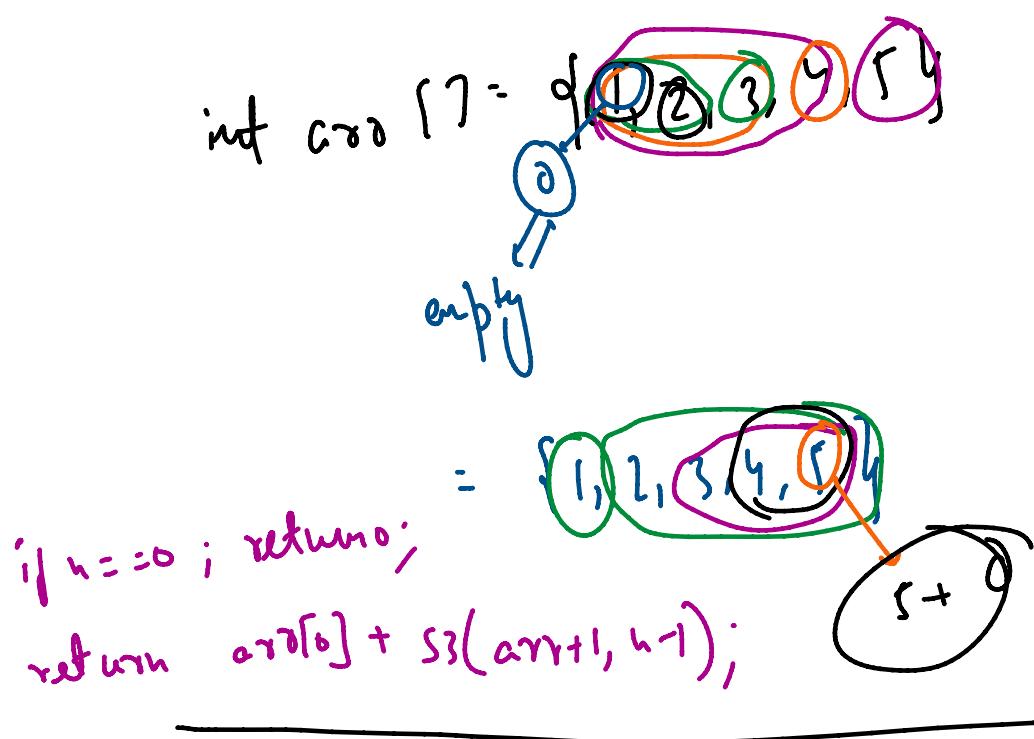
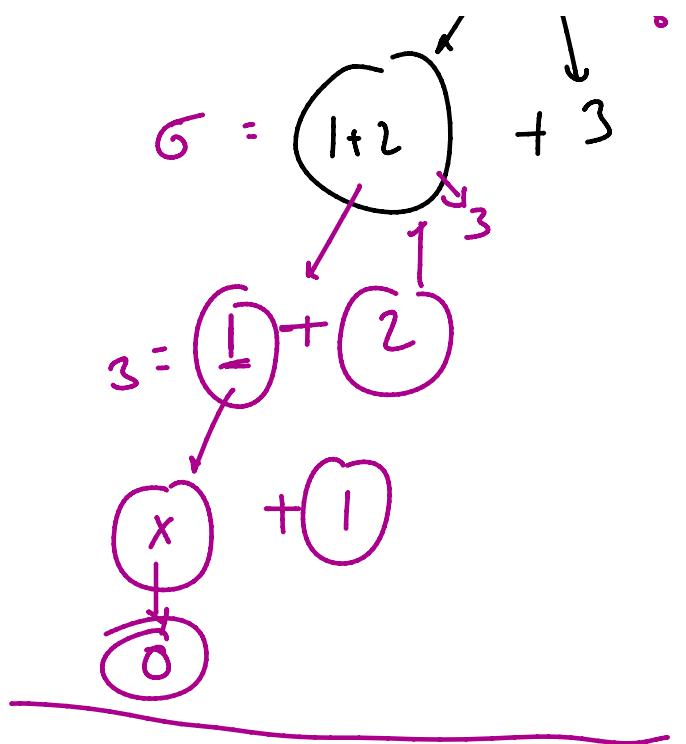


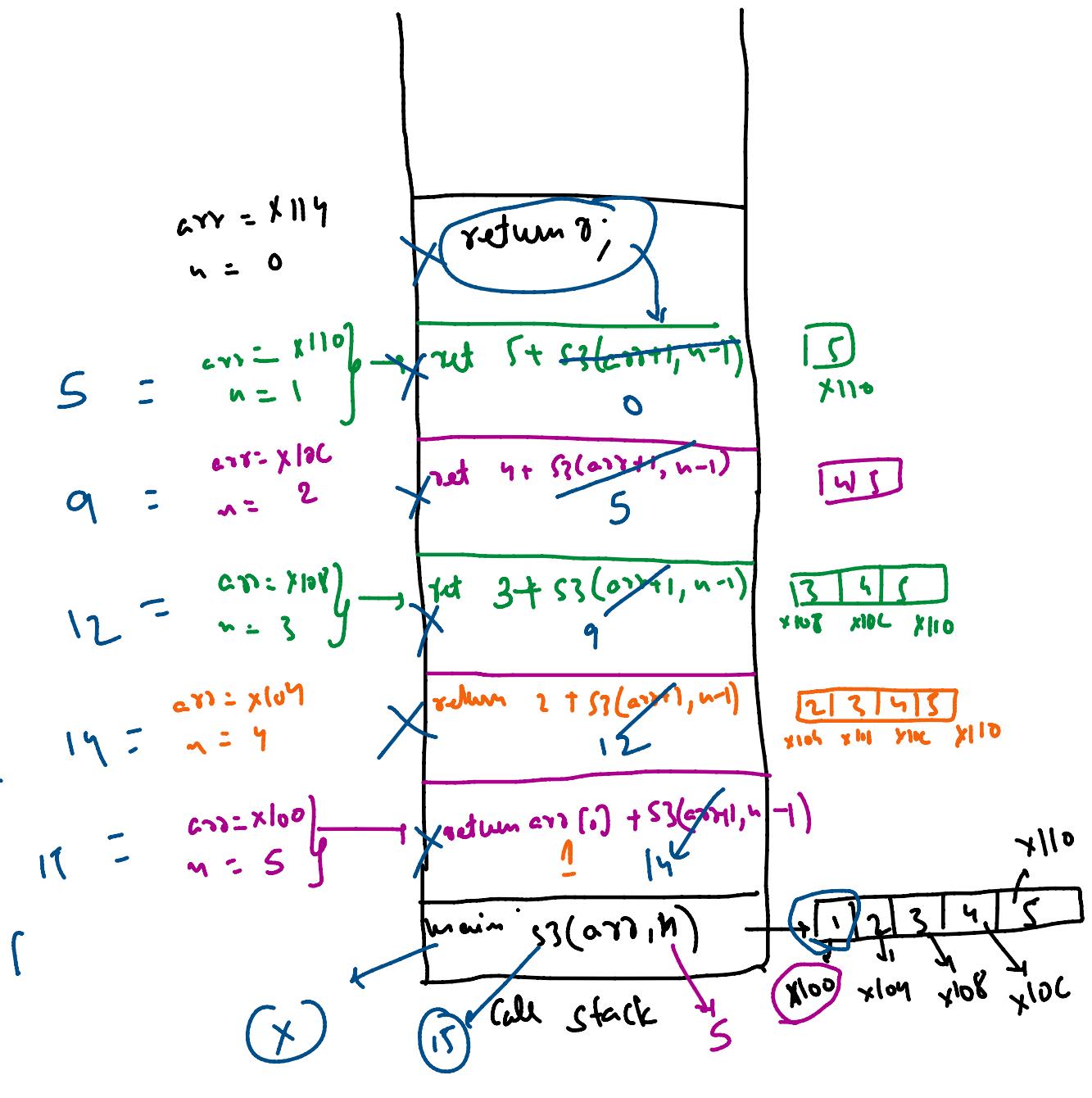
int arr[] = {1, 2, 3, 4, 5}

find out the sum of this array using

recursion:







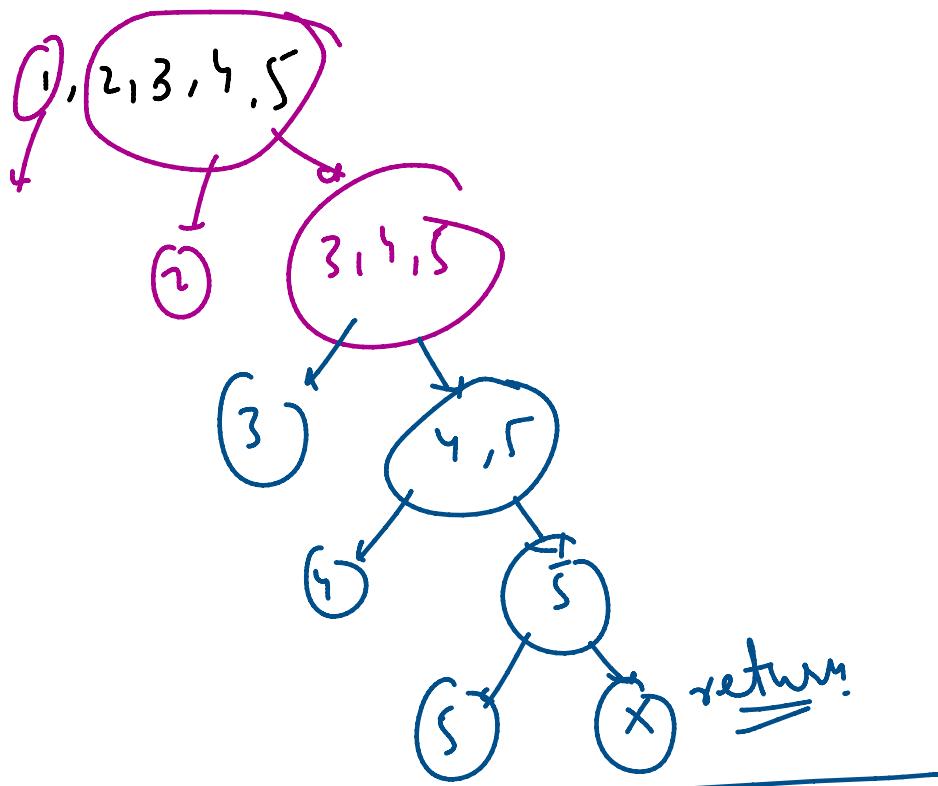
(n)

1 to n

$n=5$

1, 2, 3, 4, 5

1 → P
2 → P
3 → P
4 → P
5 → P



② print $n \rightarrow 1.$

$n = 7$

