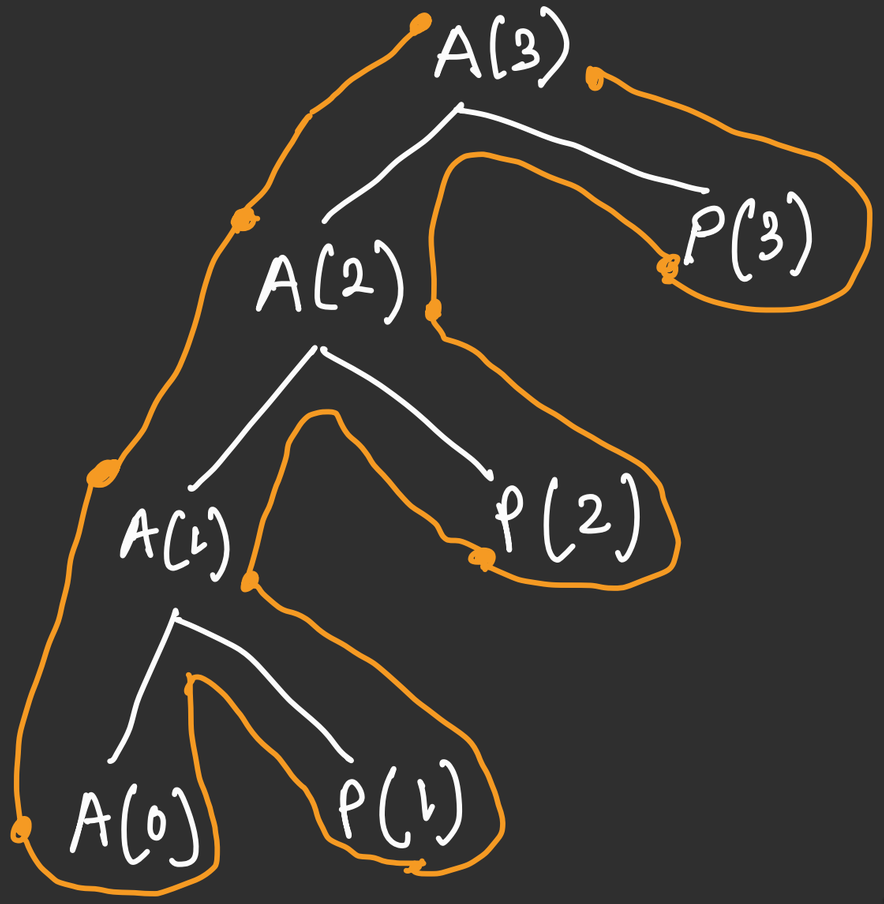
Topics to discuss

How to find space complexity for recursive algorithm.

Assume,

$n = 3 \Rightarrow$ 4 calls

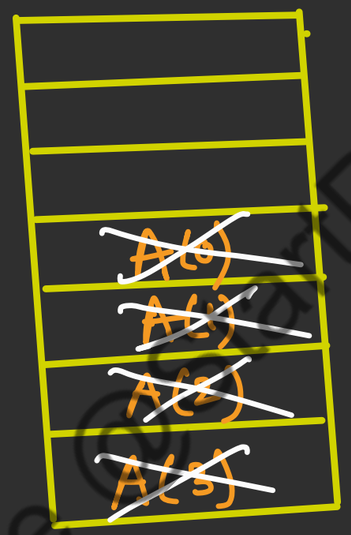


Traverse → Top to down
Left to right

$$T(n) = \begin{cases} T(n-1)+1 & ; n \geq 1 \\ 1 & ; n = 0 \end{cases}$$

$A(n) = (n+1)$ calls

Memory



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$S.C = (n+1)K$

$= O(nk)$

$S.C : O(n)$

```
A(n)
{
   if(n ≥ 1){
        A(n-1)
        Print(n)
   }
}
```

Follow Now

Start Practicing

i._am._arfin

Arfin Parween