

Ques Max of array

10	15	2	30	1	6
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 $\Rightarrow 30$

Expectation

$\text{max}(\text{arr}, 0)$
 $\Rightarrow 30$

Faith

$\text{max}(\text{arr}, 1)$
 $\Rightarrow 30$

Combine

$\text{int maxA} = \text{max}(\text{arr}, 1)$
 $\text{int newM} = \text{M.max}(\text{arr}[0], \text{maxA});$
 $\text{return newM};$

Ques Find the last index

0	1	2	3	4	5	6	7	8
4	1	6	2	6	2	4	1	7

arr, element
 $\Rightarrow 7$
 $\rightarrow 1$

Expectation

$\text{lastIdx}(\text{arr}, 4, 0)$
 $\Rightarrow 6$

Faith

$\text{lastIdx}(\text{arr}, 4, 1)$
 $\Rightarrow 6$

Combine

- ① Recur - -1
check $\text{arr}[\text{idx}]$
- ② Recur $\rightarrow > -1$
return idx

Ques First index in array

0	1	2	3	4	5	6	7	8
4	1	6	2	6	2	4	1	7

Expectation

$FI(arr, 6, 0)$

$\Rightarrow 2$

Faith

$FI(arr, 6, 1)$

$\Rightarrow 2$

Combine

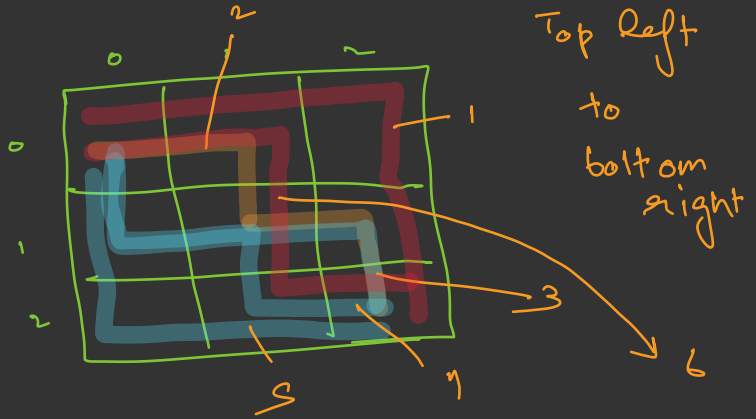
if ($arr[idx] == el$)
return idx

else
return
 $FI(arr, el, idx + 1)$

Ques Last Index

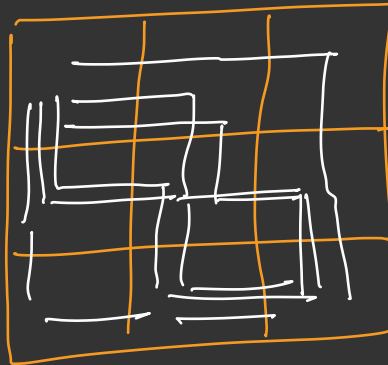
iterate from right to left

Ques Maze Path

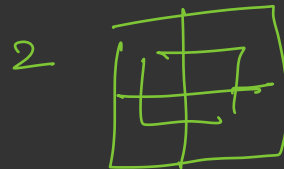


6

$HHVV$
 $HVVH$
 $HVHV$
 $VHHV$
 $VH VH$
 $VVHH$



→ Count = 6



6 ¹	3 ²	1 ³
3 ⁴	2 ⁵	1 ⁶
1 ⁷	1 ⁸	1 ⁹

total ways \Rightarrow right + bottom