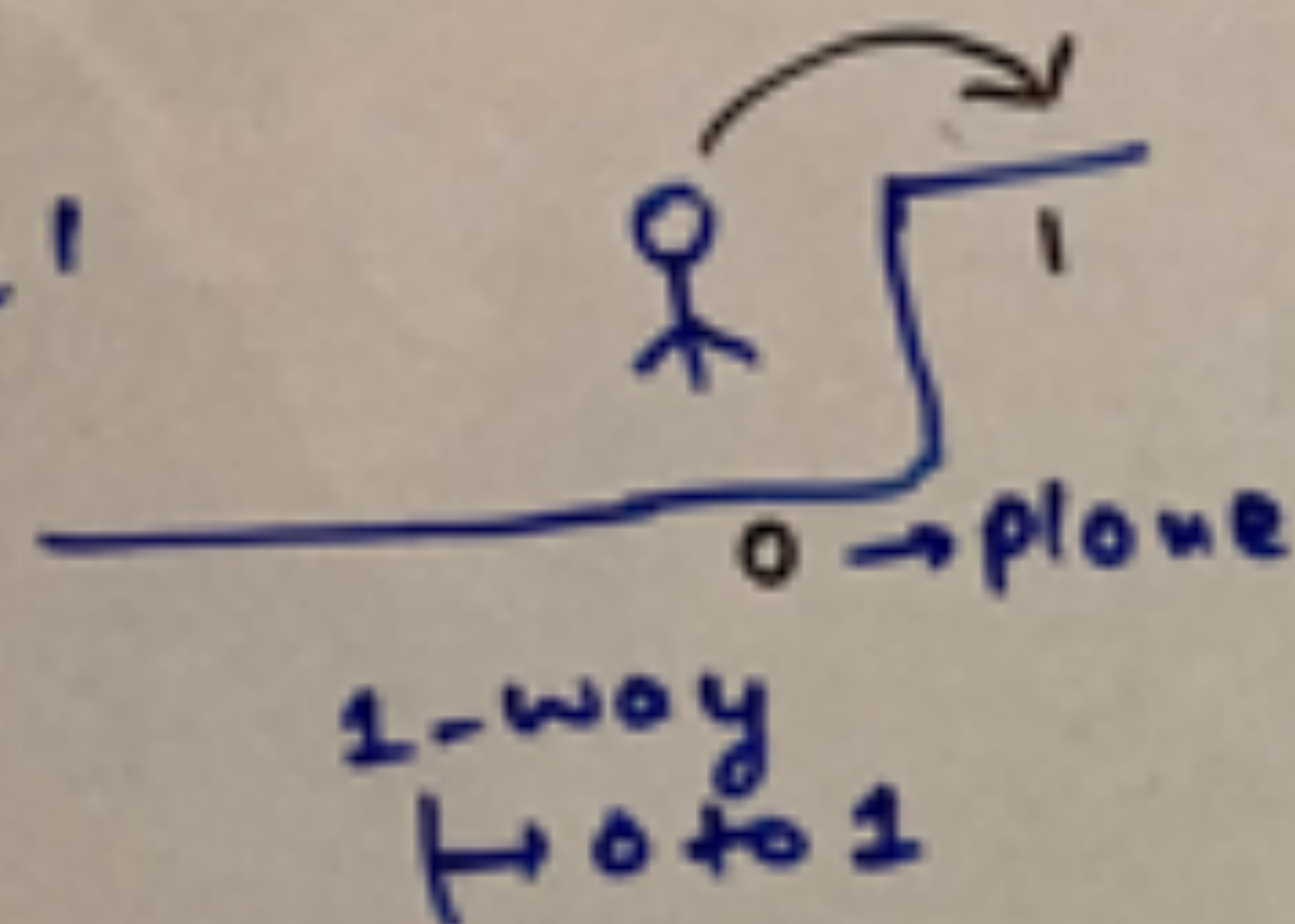
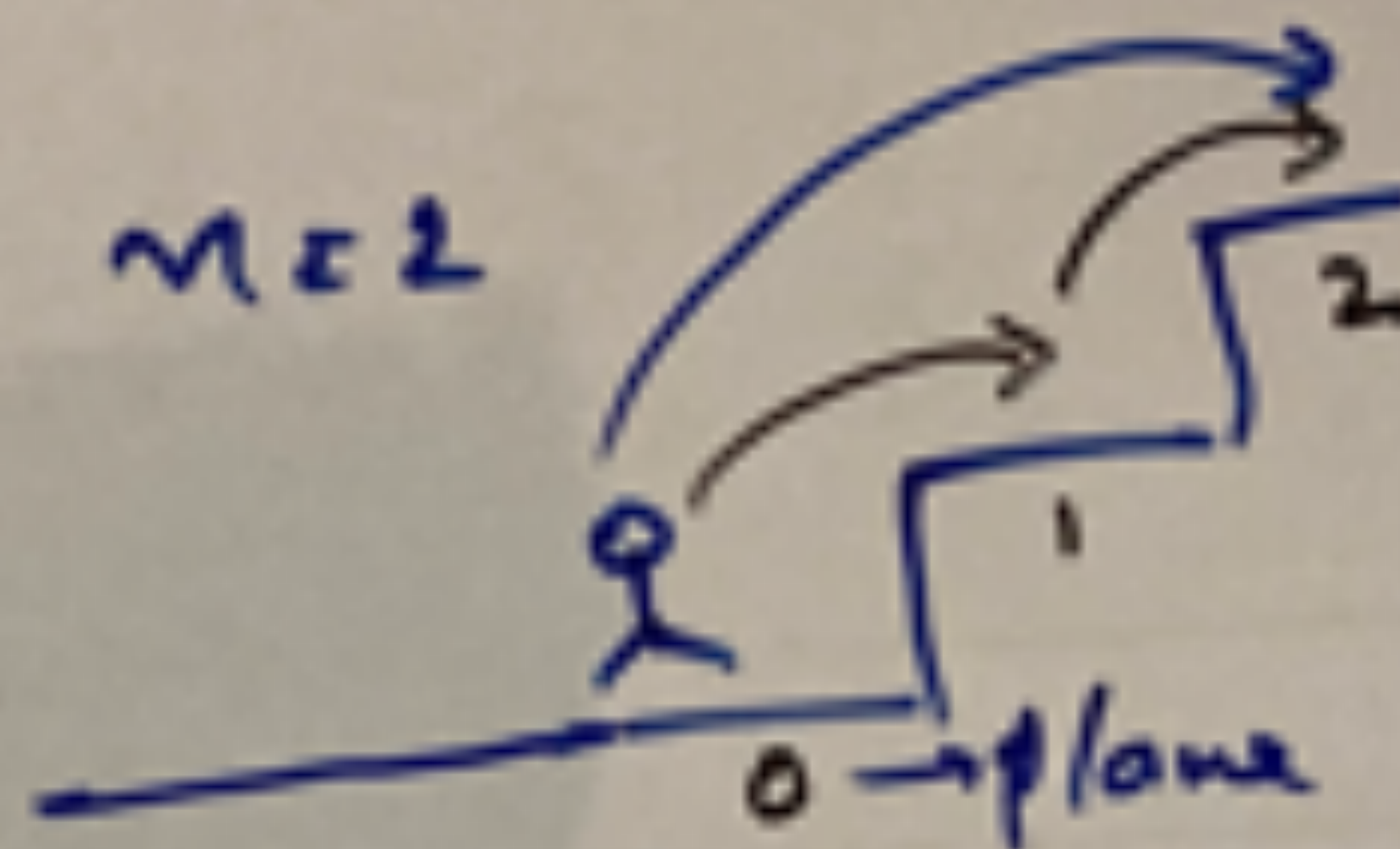


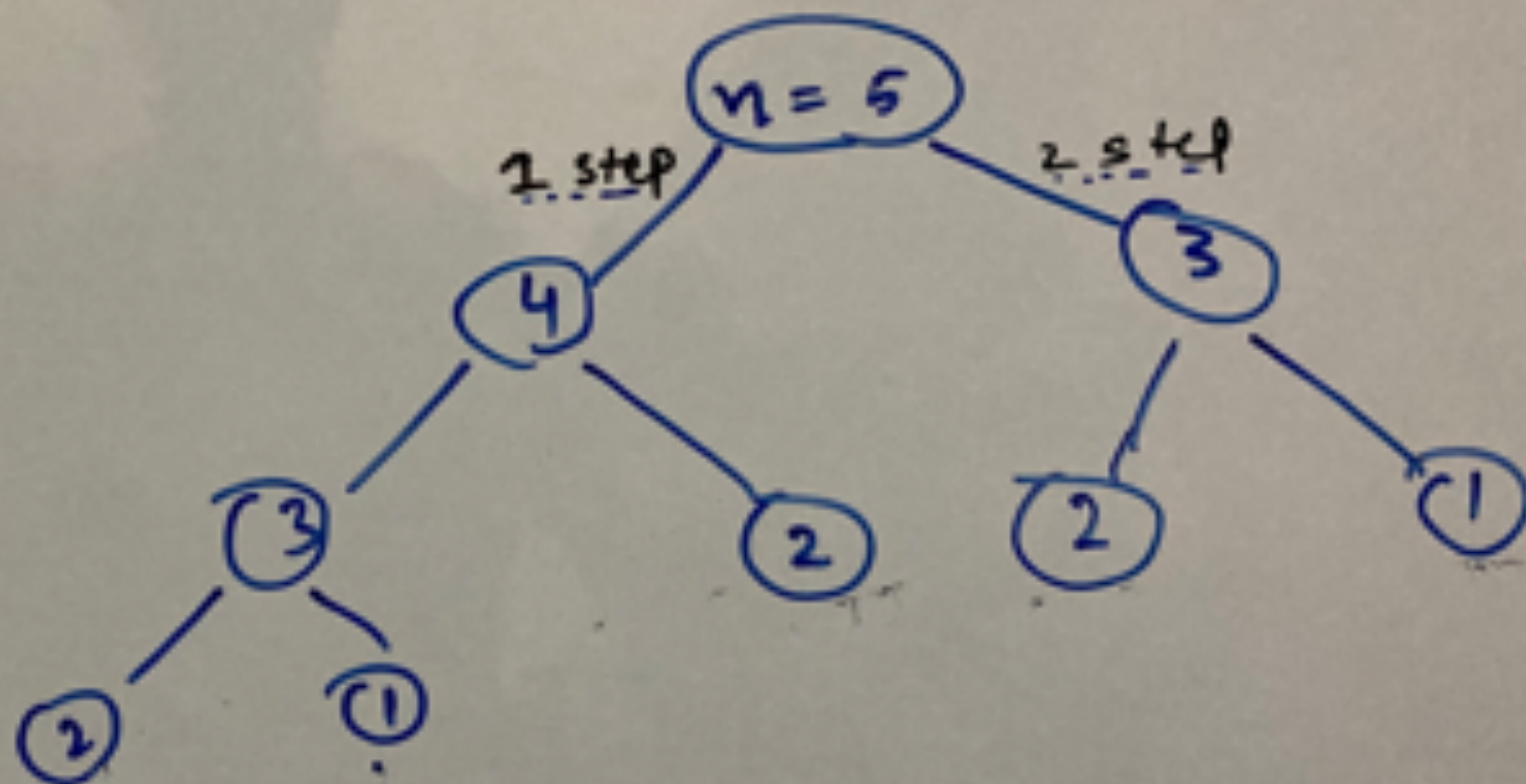
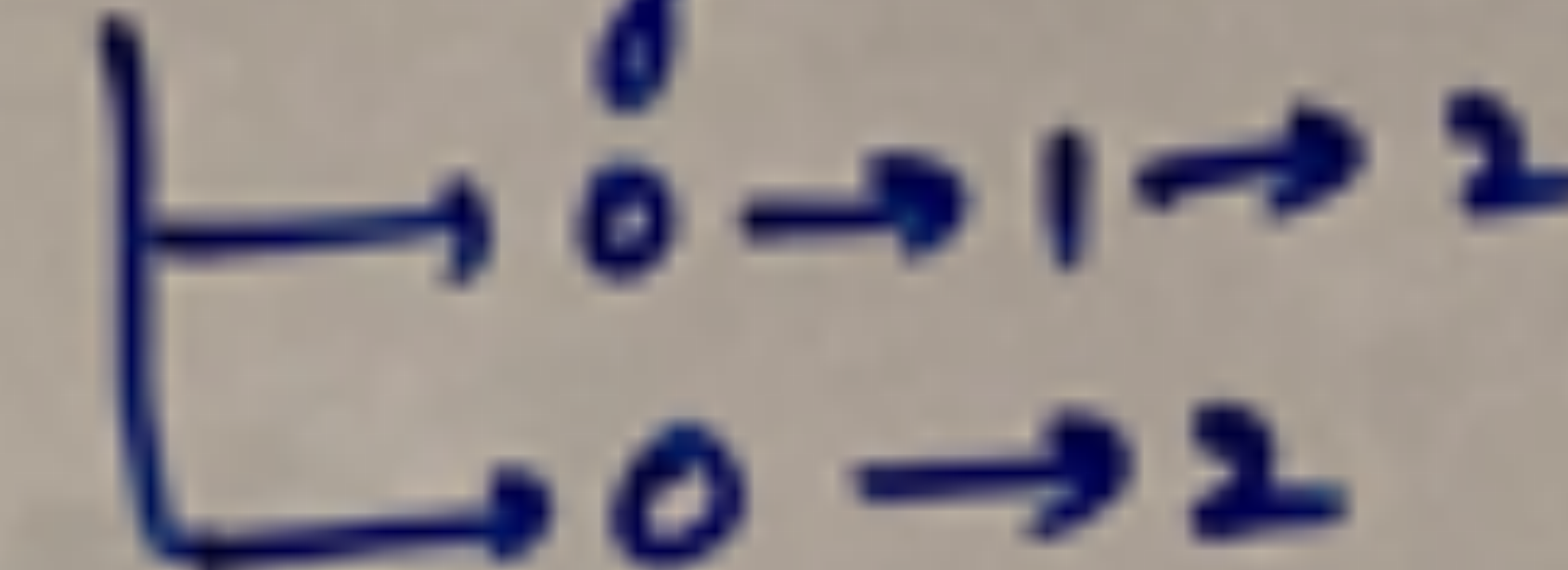
$n=1$



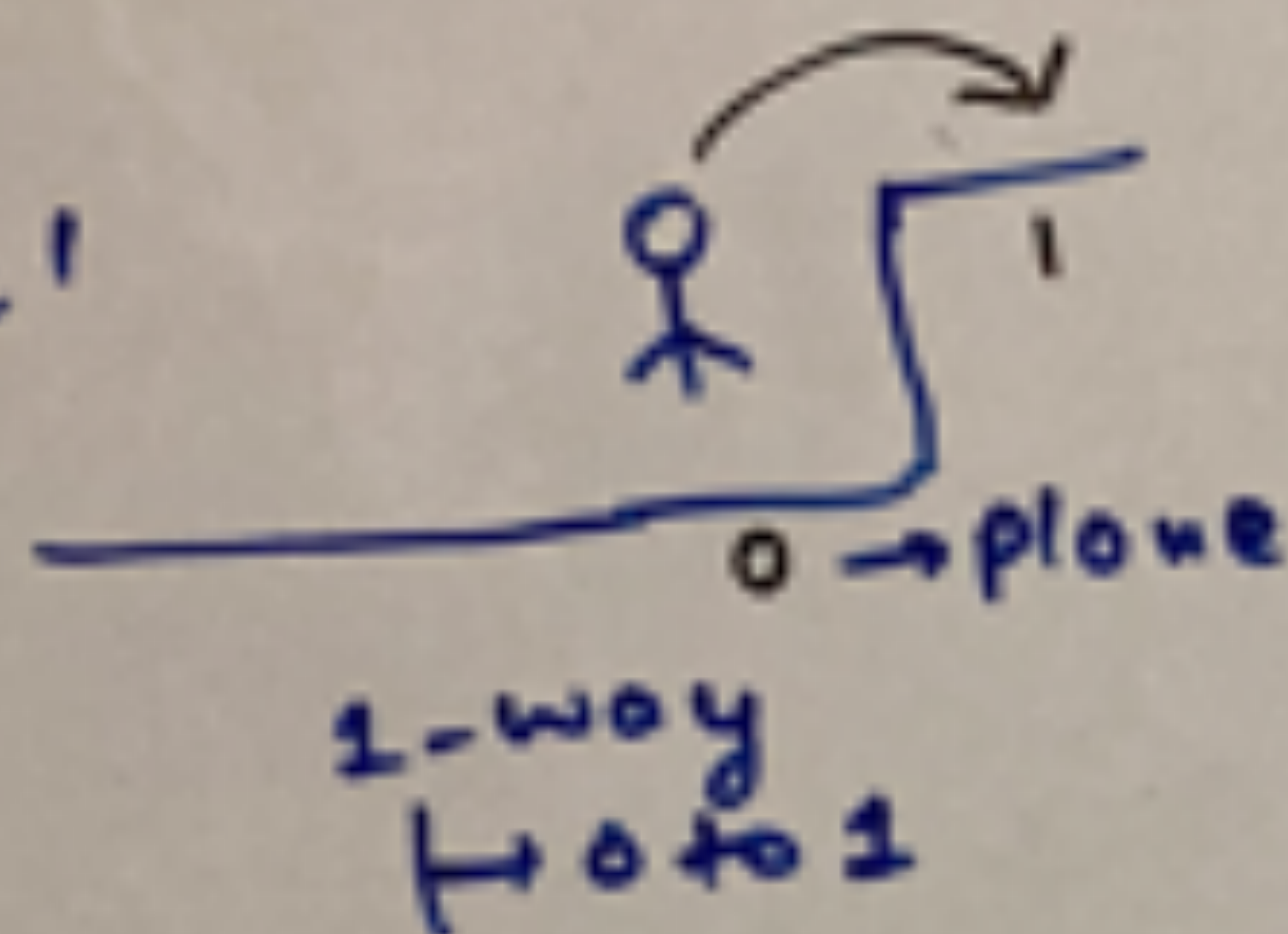
$n=2$



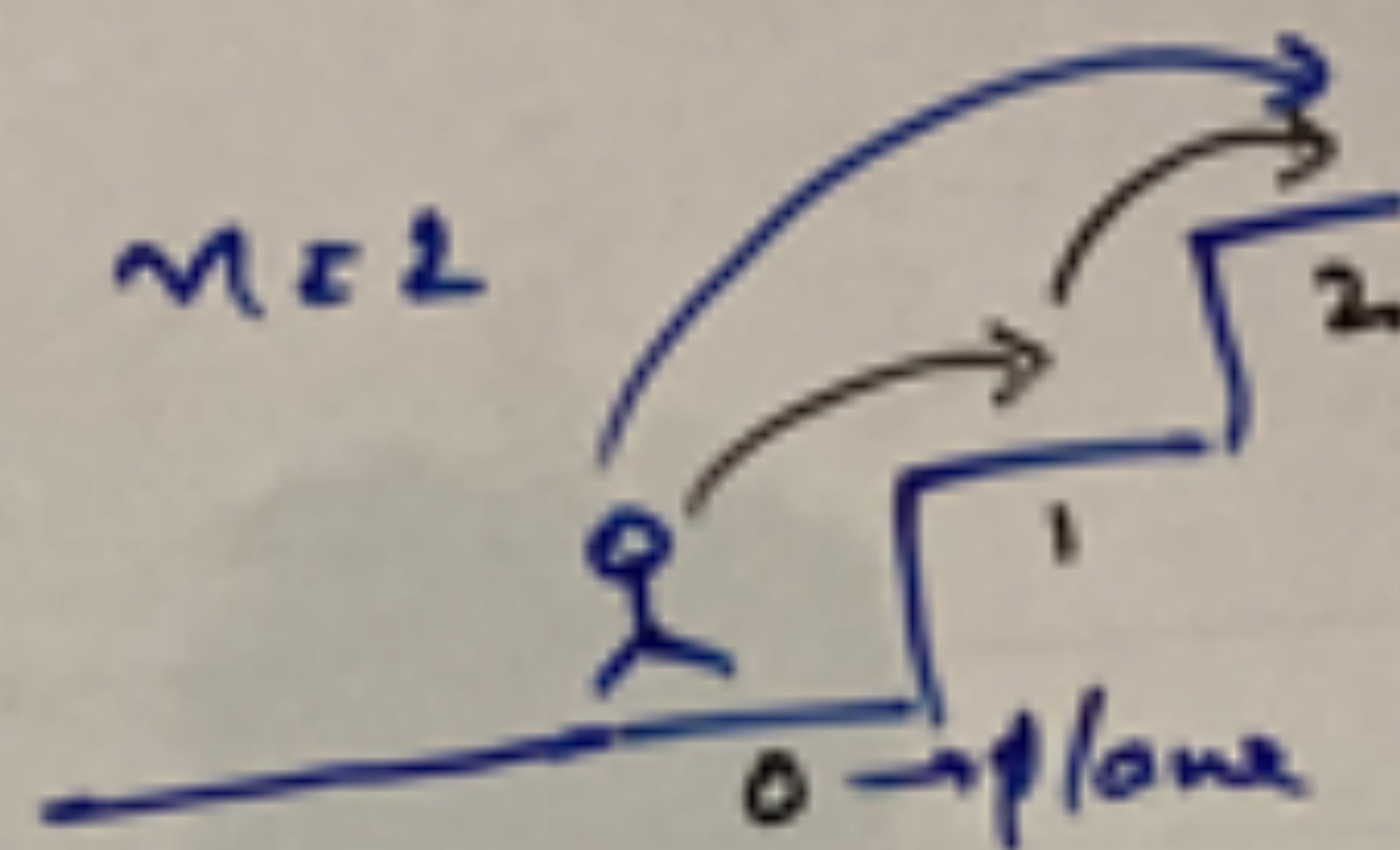
2 ways



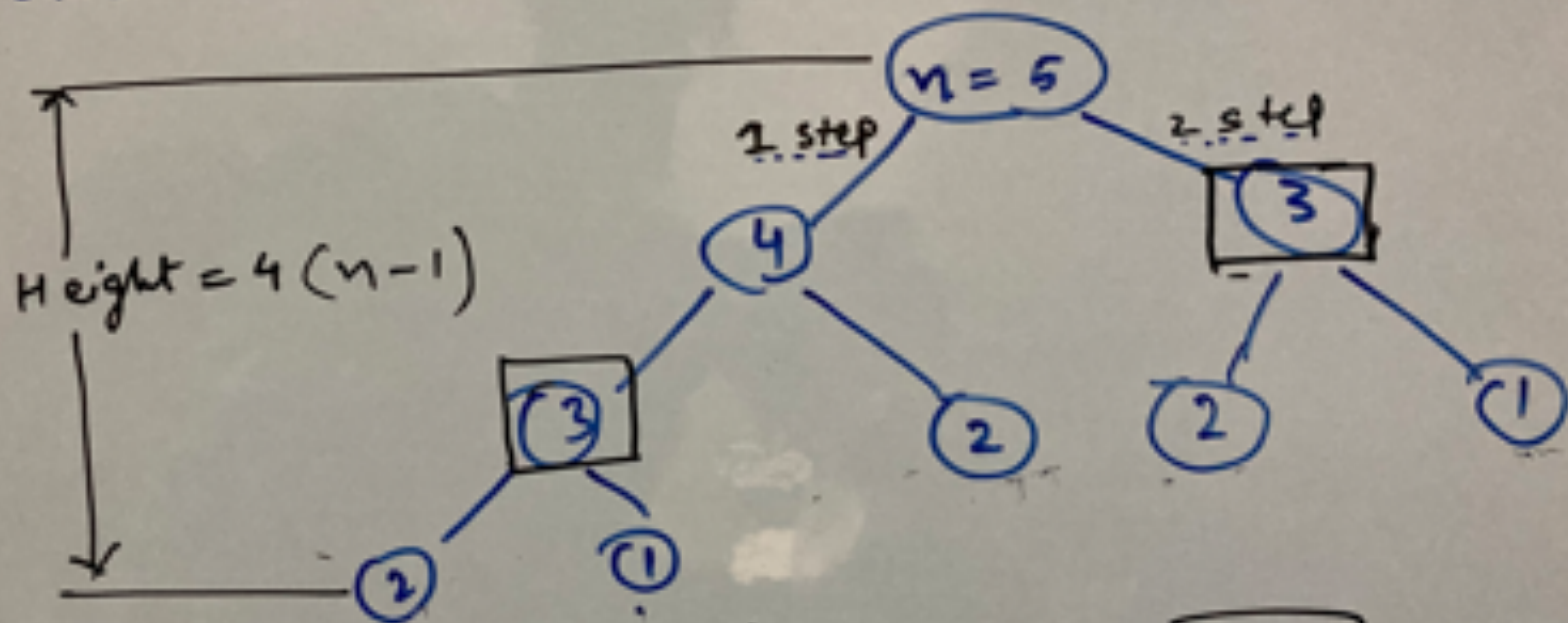
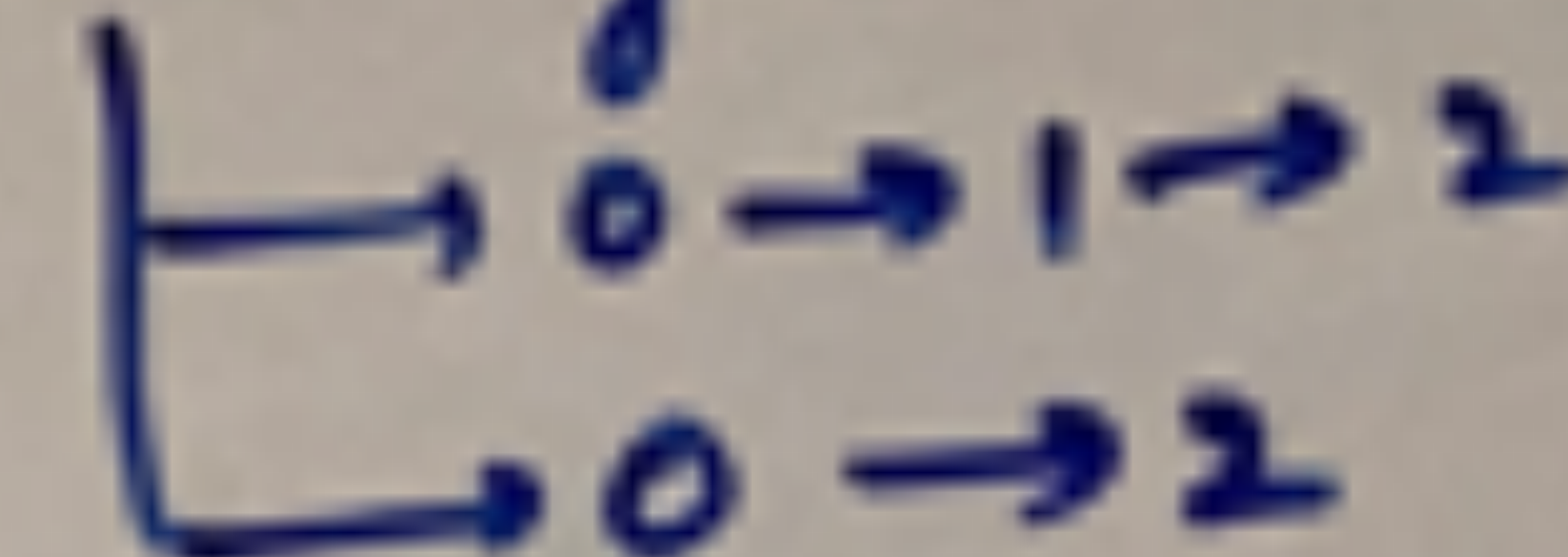
$n=1$



$n=2$



2 ways



Height = $4(n-1)$

Total nodes = 2^{height} = 2^{n-1} \approx 2^n