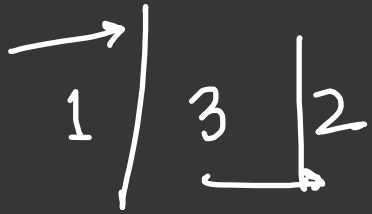


# Next Permutation

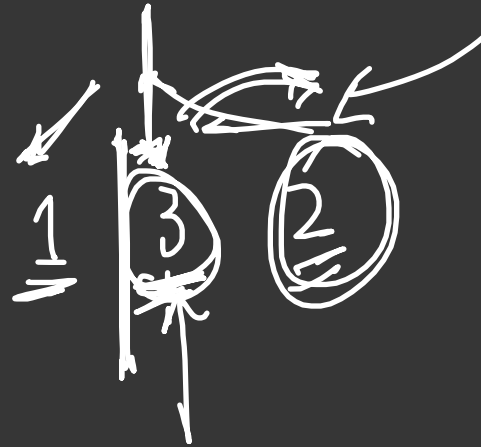


1, 3, 2

8

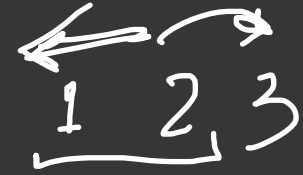


1



1 3 2

~~2 3 1~~



2 1 3

~~3 1 2~~ 3 1 2

3 1 2  $\leftrightarrow$  1 2 3

2 1 3

1 2 3  
 ↑  
 pivot

1 2 3  
 ↑ ↑

2 1 3

1 3 2

pivot

1

1 3 2  
 ↑ ↑ ↑

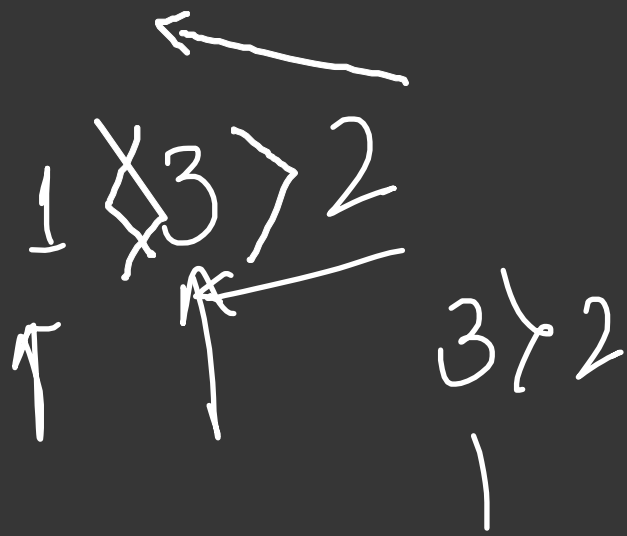
~~1 2 3~~

3 2 1  
 ↑

1 3 3 1 2

1 3 2  
 ↑ ↑ ↑

2 1  
 2 3 1  
 ↑  
2 1 3



$i > \text{root}[i+1]$



