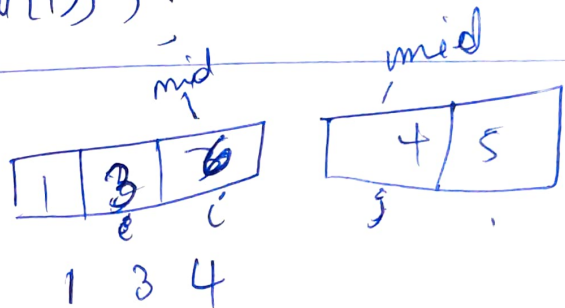


\rightarrow merge intervals
 $j = 0;$ \rightarrow push (interval[0])
 for ($i = 1; i < \text{interval.size}(); i++$)
 {
 if (ans[j][1] >= interval[i][0])
 +1 = ans[j][0]; [current point]
 +2 = max(interval[i][1], ans[j][1]);
 end point of 0th end point of i-th
 ans.pop_back();
 ans.push_back({+1, +2});
 }
 else
 ans.push_back(interval[i]);

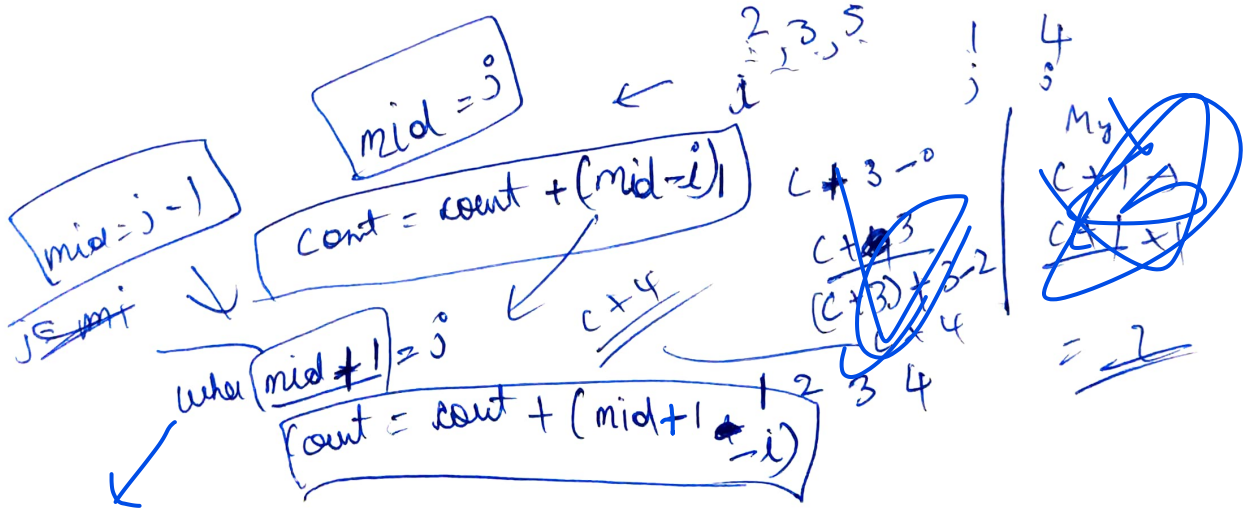


\rightarrow count inversion

$a[i] > a[j]$ where $j > i$



Range 1 + 2



with ref to j