-> Computational Complexity - Running time - Binary -> Binary Search input = key, a[N] mid = Hi + ho Value of mid > N/2, N/4, N/8 end of mid calculation. where N >1 No of compares leke)
if (key < a [mid] => 1 companison 2 comparisons N=15= 3 comparison 31 15 NTP NTI NTI NTI N# N# N# N+1 2, 4, 8, 16 mid {2,4,8} {4, 2}

So mid is calculated N+1 > 1 2 (count-1) (count-1) N+1 > 2 log (N+1) > count -1 count < 1+ log (N+1) n [count < 1 + log N]