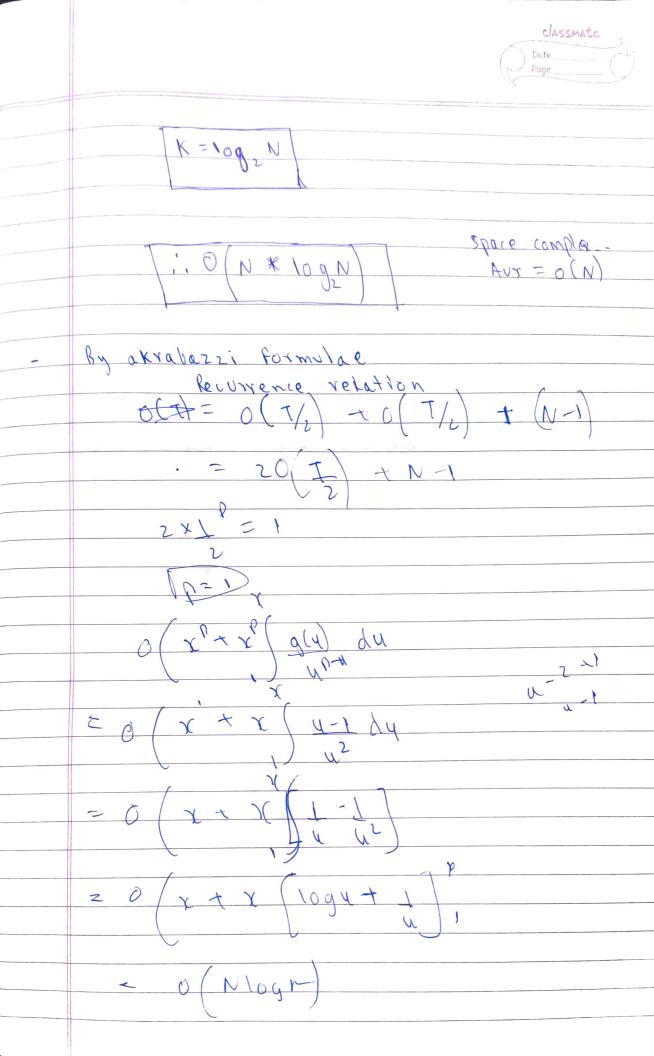
Classmate * Merge sort [3,4,5,6,8,12 @ Net both part sorted via recursion 3 merge the sorted parts Explain (3) 10 and b= 53,5,9,19,32 jan 2 = 4,6,8 3,4,5,6,8,9,19,32

= 1 X N = N At every level, N elements are being merged KA K log 2 = log N



CLASSMAL 4 5,4,3,2,1 Pivot: Choose any element -) after 1st pass
all the elements < p will be on Lits & elements> p will be at RHS of p * how to put pivot at correct position? while n n slidw

	CIASSMALE
	Date
	Page
	Four was able
	four variable swapping
	S & end
	low I bi ab
	low & high
	main tells us which part
	of ouray you are norking on
	10,80,30,90,40,50,704
	{10,30,40,50}
4	10,30,40}
	10130 103
2.1	The first of the second of the
5	
1 10	,309
< 4	
210	<u> </u>
#	How to pick pivot:
	* Random element
	* corner element
	* Rick the middle element
	A KILL THE THE STREET

W-K-) Important T(N)= T(K) + T(N-K-1) +0(N) wrost (use: 3,5,8,9,20,34,18,66 K=0 T(N)= T(N-N) +0(N) linear recurrence relation hest case: $\left(\begin{array}{c} N \\ \hline 2 \end{array}\right) + \left(\begin{array}{c} N \\ \hline 7 \end{array}\right) + 0$ 7(N) = 2 t (N) + OCM OCN LOQN)

