group members: ex. 1 see the po f ex. 2 see the po -	file attached	ZhuZhongbo z Yang Zhaohua	
ex.3 see the py-	file attached		
ex.3 see the py-			
- (1 (1)	file attached		
ex.4 (1)			
write the recursion	$formula: f(n) = \begin{cases} 0 & \text{if } n < \frac{1}{2} \\ f(\frac{n}{k}) + f(1 + \frac{1}{2}) \end{cases}$	<1 名)+…+f(长) +g	ы)
•	be merged together.	~	· · · · · · · · · · · · · · · · · · ·
merged List:= men	ge (h.k,lk):		
tmp = 1	None J X N		n
For all i	Ellizimks, choose xieli, ty	€ { head (U) U head	(b) U head (b) U head (UK) },
tmp	[k] = ×		
li.p	op (x)		
return t	тр		
le can obtain the number	of comparisons is as follows:	only t	aus lisss left
O Best case: clear the	of comparisons is as follows: List one by one $k \cdot \frac{1}{k} + (k+1)$.	た+…+(k-(k-1))た	$=\frac{F(H)}{2}\cdot\frac{N}{K}=\frac{H}{Z}\cdot \eta$
	will be cleared beforehand kin		
ō fin = fil) + f(た)+、			
· ·	get an = Kaln-1 + K ⁿ⁺¹ + K(K-1), wh	hose characteristic equ	aution is (x-k) ² cx-1)
`	is $d_n = C_1 \cdot n \cdot k^n + c_2 \cdot k^n + C_3$	•	
	(2·n+c3 where logic	1	· ,
	€ O (ubgzn), the proof		
Therefore I we say July	o congent, we prof	10 win pieve.	

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