	Note Title		
	Note Title 9/11/2007	Max Array Problem	

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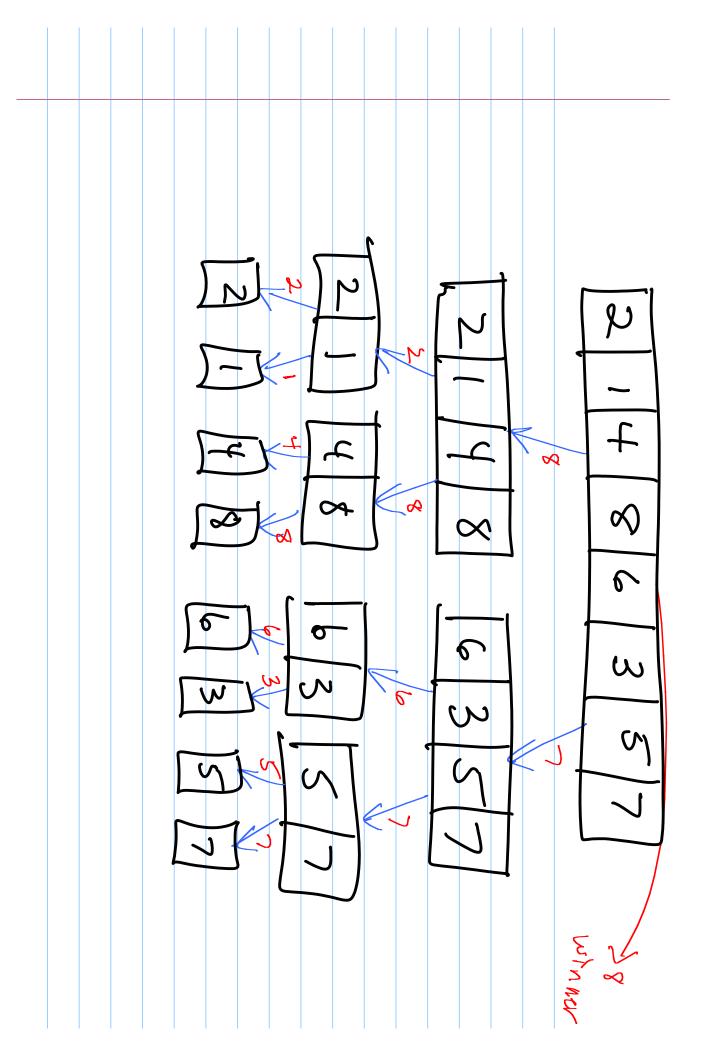
maximalue 8

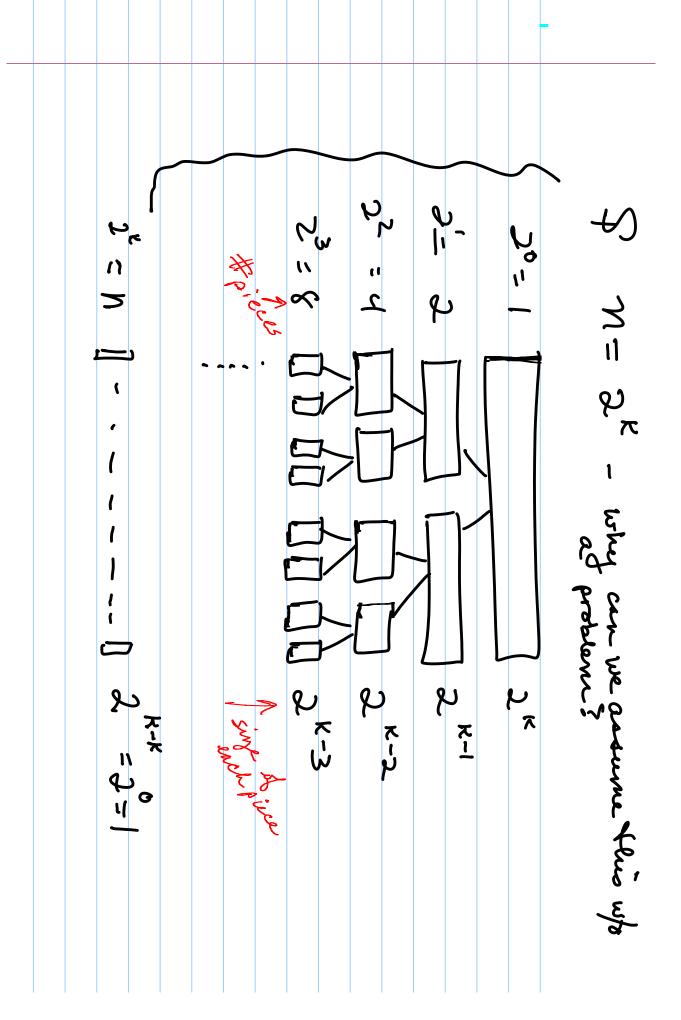
1) Sort array at cost **(**nlogn). Take last item.

This is petter Do pair-wise comparisons through file.
 This implies n-1 comparisons, so cost is linear

3) Use recursive procedure - Find winner each half & compare to find next winner

Aby logar) is nominally the cost of all Res modula 18. comparison based sorting.





Costio 
$$\sum_{k=0}^{k-1} 2^k = 2^{k-1} = 2^{k-1} = 2^{k-1}$$
 (Uses)

A.S samp  $\sum_{k=0}^{N} X = X^{N+1} = X = 2^k$  Mornighans

Note  $N=2^k$  so  $2^{k-1} = N-1 = NO(n)$