## INSERTION SORT MERGE SORT QUICKGOKT

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INGERTION GORT sorted un saled  $\{3,1',7,2,0,1\}=\{3,1',7,2,0,1\}\rightarrow\{1',3,7,2,0,1\}$   $-2\{1',2,3,7,10,1\}\rightarrow\{0,1',2,3,7,1\}\rightarrow\{0,1',1,2,3,7\}$   $hT(n) \in \Theta(n)$ ,  $MT(n) \in \Theta(n^2)$  Stable sort 0 1 2 3 7 1 -> X=1 1/2 3/7/ 0/1/1/2/3/7

MERGE 1, 7, 2 3, 6,6,3'> 6 MER6E 13,31,4,6 T(n) } 60 (n. logn) STABLE SORT

1,3, PARTITIONING O(n·loga)

