perform Merge Sout algorithm by Land on the array [7,6,5,4,3,2,1]. Show all I stens [7,6,5 | 4,3,2,L-) L234567 43/21-2234 7 65 -> 567 43->34 65->56 5-35 6->6 fig: Merge sont.

4-different binary hee: 4. A. Fig: Bing Treet. fig: Biry Tree 3 B. yes, it is tone that, Every binary tree

of height 3 has at Edost 23=08 leaves. For enample, in figure I, enactly maximum posible leaves. i.e. 8.

c. The number of leaves in a tree of herent n is no more tran 24. - All the loaf nodes in a perfect binory tree of height in has a depath equal to # nodes at depth in in perfect bing free

- No. of loof nodes in perfect bing

tree of height h = 2h.