EC380 HW5/

- 1) To construct a max heap from eight #5 En, nz...ne3 by only using 8 comparisons,
 - · We begin with a get of 4 pairs where:

 NITNZ N37N4, N57N6, N77N8

 Then, we compare the largest elements of two pairs, where if n,7n3, our tree is

12 nz and IF n5717; n7 no

- we then need to know which of the two nax-hears has the larger roct.

 if n, 775, we use our eighth to final comparison to rearrage the elements that are children of n, this is essential blo otherwise the Grad merged heap would not necessarily follow max-heap properties.
- · By checking the two children of the larger root (n.), if nz 7 nz cur final max-hear ordered w/8 comparisons is

77 16 14 ns

