heap
max heaps @ note in level K greter than K+1
Bleft chid Smellest floor light child Conone
best case in heap (Insert/remove) principles &
<u> </u>
insert 20 insert 3 then 28
delet one Key delet tou key
Sort
w-rst (n²) Combarison In Place Stable Insertian
Quick beth filtex
(4.B) (1.F) (2.A) (4.A) (7.A) (2.E)
increasing by use Solect Sort and heap Sort (if left and Right equal take Right)
Hash
2. You want to store at most 16 keys in hash table using the % hash function. Choose the most appropriate table size:
4. Consider the following hash function: select the two rightmost digits then apply % 11 on the
corresponding number. Which of the following couples of keys cause a collision? (a) 66 and 151 (b) 4301 and 733 (c) 1244 and 926 (d) all (e) were
b) (8 points) Use the hash function $H(key) = key\%5$ to store the sequence of keys $22,15,12,27,18$ in a hash table of size 5. Use the following collision resolution strategies:
1. Linear rehashing (c=1). Fill in the following 3. Coalesced chaining with cellar size 2 and address region size 5. Fill in the following table
Key 22 15 12 27 18 (put -1 if there is no next element): Fosition Continuous Continuous
Number of probes Position Index of next element 2. External chaining. Fill in the following table:
Key 22 15 12 27 18 Index of the list Index of the list Index of the list Index of the list

