

5. Heap Sort is an unstable. Give an example of an input list in which the order of records with equal keys is not preserved.

A	B	C	D	E	
100	90	88	88	60	(in Maxheap)

After sorted

$\Rightarrow$

E	D	C	B	A
60	88	88	90	100

$\Rightarrow$  should be C  $\rightarrow$  D  
thus it's unstable.