NeuD.	hxie13	QuizID: 856/14 Score: 3/5 Answer Source: PrairieLearn		
A. B. C.	HeapifyUp HeapifyUp [Correct And	± '	ll call at most	_ times.
2 What	ahamaatamiati	tic of Heaps allow them to be stored efficiently in an array?		
A. B. C. D.	[Correct Ans Heaps conta	nswer] Heaps are complete trees. tain comparable keys. wer] None of the other choices is a sufficient explanation. binary trees.		
3 Cons	ider a mov ho	neap, represented by the array: 40, 30, 20, 10, 15, 16, 17, 8, 4. Now consider that a value 38 is inserted	into this hear. After insertion	the new hean is
A. B. C. D.	40, 30, 20, 1 [Correct And 40, 38, 20, 1 40, 30, 20, 1	10, 38, 16, 17, 8, 4, 15 nswer] Your Answer] 40, 38, 20, 10, 30, 16, 17, 8, 4, 15 10, 15, 16, 17, 8, 4, 30 10, 15, 16, 17, 8, 4, 35 te other options	,	T
4. What	is the worst	st case running time of insert (Object) on a min heap? In answering this question you should assu	ime the best possible implemen	ntation given the constraints.
A. B. C. D.	o assume that o(n) o(n²) o(1) [Correct Ans	at every array is sufficiently large to handle all items (unless otherwise stated). The variable n represents nswer Your Answer o(1002 n) to other options		
5 For a	minHean im	implementation, assume we use the 0th index of the array to store the root (instead of index 1). Given an	element at nosition . what wa	alld he the position of its
parent (A. B. C. D.	assume (≠0)? [Correct And [½] [[-1/2]])? nswer] [Your Answer] [발]	enamen a position, what we	and the position of its

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