NetID:	<mark>penggu2</mark> Quiz	zID: 832314	Score: <u>4 / 5</u>	Answer Source:	<u>PrairieLearn</u>			
A. S B. S C. D. S	\$4i + 1\$ \$2i + 1\$	mentation of a Heap Your Answer] \$4i +		x of 1), the left-child	of the right-child of	the node at index \$i\$, if	it exists, can be found	d at what array location?
A. B. 1 C. 1 D. 1	[Correct Answer] [None of the other c level from left to rig path from root to le	In a maxHeap, the r Your Answer] path choices is accurate. ght are non-increasing eaf are non-decreasing ght are non-decreasing	n from root to leaf a ng. ng.	are non-increasing				
3 Consi	dar a may haan ran	recented by the arm	av: 40, 30, 20, 10	15 16 17 8 4 Now	consider that a value 3	35 is inserted into this h	agn After insertion t	he new heen is
A. 4 B. 1 C. 4 D. 4	40, 35, 20, 10, 15, 1 None of the other of 40, 30, 20, 10, 15, 1 40, 30, 20, 10, 35, 1	16, 17, 8, 4, 30 options 16, 17, 8, 4, 35			consider that a value 3	is inserted into this in	eap. Aite iliserioli, t	не нем неар іѕ
A. 1 B. 1 C.	HeapifyUp,\$h\$ HeapifyUp,\$n\$ <mark>[Your Answer]</mark> Hea		·	n = 2^{h+1} - 1\$ node	es, an efficient implem	nentation of BuildHea	p will call at	most times.
7 33 3 1				. 1 07		1 11 4 4		
A. S. B. I. C. D. S. E. S.	assume that every a \$O(1)\$ None of the other o	array is sufficiently	large to handle all			ou should assume the be le \$n\$ represents the nu		tation given the constraints,