NetID:	zeruiw2	QuizID: <u>268814</u>	Score: <u>4 / 5</u>	Answer Source: PrairieLearn
A. B. C. D.	None of the 40, 43, 20, 1 40, 30, 20, 1 40, 30, 20, 1	eap, represented by the action of the options 10, 15, 16, 17, 8, 4, 30 10, 15, 16, 17, 8, 4, 43 10, 43, 16, 17, 8, 4, 15 [Your Answer] 43		0, 15, 16, 17, 8, 4. Now consider that a value 43 is inserted into this heap. After insertion, the new heap is 6, 17, 8, 4, 15
2 For a	nerfect tree	of height, containing	atu i nodes an eff	icient implementation of BuildHeap will call:
A. B. C. D.	sort remove m. [Correct An HeapifyU]	in <mark>[Your Answer]</mark> He		Reduction of Bullaneap will call.
3. Com	plete the stat	ement: In a maxHeap, th	ne nodes on any	
B. C. D.	level from level from level from level	other choices is accurate eft to right are non-increa oot to leaf are non-decrea eft to right are non-decrea iswer] [Your Answer] pa	nsing asing asing	f are non-increasing.
				on a min heap? In answering this question you should assume the best possible implementation given the constraints,
A. B. C. D. E.	[Correct An	o(logn) other options	tly large to handle a	all items (unless otherwise stated). The variable a represents the number of items.
		1 4 2	4 04	
right ch A. B. C.	ild (if one exi None of oth 2i-1 [Correct An 2i+1	ists)?		of the array to store the root (instead of index 1). Given an element at position 1, what would be the position of its