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IMTx NET04x Advanced A	lgorithmics and	Graph Theory witl	h Python	<u>He</u>	<u>lp</u> sandipan_d
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urse / Part 3: Sh	ortest Paths, Min-	-Heaps, Algorithmic	: Complexity / 2. Min-heaps		
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Practice O	uestions: M	lin-heans			
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What have	vou learnt s	so far?			
	you learnt s	so far?			
3/3 points (ungr	aded)		e) couples: $(A, 25)$ $(B, 37)$	(C,5) What is the next counle	e that will be
3/3 points (ungr	aded)		$e)$ couples: $\left(A,25 ight),\left(B,37 ight),$	(C,5) What is the next couple	e that will be
3/3 points (ungr 1. A min-heap	aded)		$e)$ couples: $\left(A,25 ight),\left(B,37 ight),$	(C,5) What is the next couple	e that will be
3/3 points (ungr 1. A min-heap	aded)		$e)$ couples: $\left(A,25 ight),\left(B,37 ight),$	(C,5) What is the next couple	e that will be
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3/3 points (ungr 1. A min-heap removed? $(A, 25)$ $(C, 5)$ $(B, 37)$ $ \checkmark$ 2. A min-heap	contains the foll	lowing $(key, value)$	e) couples: $(A,55),(B,22),$	(C,5) What is the next couple $(C,32),(D,87)$ Consider each	
3/3 points (ungr 1. A min-heap removed? $(A, 25)$ $(C, 5)$ $(B, 37)$ $ \checkmark$ 2. A min-heap	contains the foll	lowing $(key, value)$	e) couples: $(A,55),(B,22),$		
3/3 points (ungrand 1. A min-heap removed?	contains the follows one by one, an	lowing $(key, value)$ lowing $(key, value)$ and select the correct	e) couples: $(A,55),(B,22),$ ct ones:		ch of the
3/3 points (ungrand 1. A min-heap removed?	contains the follows one by one, an	lowing $(key, value)$ lowing $(key, value)$ and select the correct	e) couples: $(A,55),(B,22),$ ct ones:	(C,32),(D,87) Consider eac	ch of the
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3/3 points (ungr 1. A min-heap removed? (A, 25) $(C, 5)$ $(B, 37)$ $(B, 37)$ $If perform$	contains the follows one by one, an	lowing $(key, value)$ and select the correctace with $(A, 32)$, t	e) couples: $(A,55),(B,22),$ ct ones: the resulting status will be $(A,$	(C,32),(D,87) Consider eac	ch of the

-]The next element to be removed is (D,87)
- igwedge If performing add or replace with (D,86), the resulting status will be $(A,55)\,,(B,22)\,,(C,32)\,,(D,86)$

- 3. The Dijkstra algorithm can be implemented...
- ousing a min-heap, by storing vertices as keys, and distances to the starting position as values.
- using a min-heap, by storing edges as keys, and distances to the starting position as values.
- using two min-heaps, one for the edges, one for the vertices.

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1 Answers are displayed within the problem

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