

< Anterior



Siguiente >

MinHeap Diagramming

[🔖](#) Marcar esta página

MinHeap Diagramming

0 puntos posibles (no calificables)

Given the MinHeap below backed by an array, perform the listed operation and enter the updated values of the backing array below. Follow the implementation taught in this course.

Answer Format: If a particular index does not contain data, type **null** in that box. Otherwise, your answer should **only** consist of numbers. Spaces, special characters, and letters will be marked incorrect. NOTE: Every box should contain a response (i.e. any index without data should have null written in the corresponding value box).

Given the following MinHeap of length 14:

```
[null, 10, 42, 22, 45, 55, 24, 88, 59, 64, 89, 75, 73, null]
```

Perform the following operation and enter the updated values below:

```
add(7);
```

Index 0

✓ Answer: null

Index 1

✓ Answer: 7

Index 2

✓ Answer: 42

Index 3

✓ Answer: 10

Index 4

✓ Answer: 45

Index 5

✓ Answer: 55

Index 6

✓ Answer: 22

Index 7

✓ Answer: 88

Index 8

✓ Answer: 59

Index 9

✓ Answer: 64

Index 10

✓ Answer: 89

Index 11

✓ Answer: 75

Index 12

✓ Answer: 73

Index 13

✓ Answer: 24

Given the following MinHeap of length 12:

```
[null, 12, 24, 50, 26, 64, 59, 86, 75, 36, 89, 83]
```

Perform the following operation and enter the updated values below:

```
remove();
```

Index 0

✓ Answer: null

Index 1

✓ Answer: 24

Index 2

✓ Answer: 26

Index 3

✓ Answer: 50

Index 4

✓ Answer: 36

Index 5

✓ Answer: 64

Index 6

✓ Answer: 59

Index 7

✓ Answer: 86

Index 8

✓ Answer: 75

Index 9

✓ Answer: 83

Index 10

✓ Answer: 89

Index 11

✓ Answer: null

[Mostrar respuesta](#)

i Las respuestas son mostradas en el problema

Scratchpad

Below is a textbox you can use as a scratchpad while you work through this problem; you should be able to click in the bottom-right and drag to expand it for your use. No text in this box will be used by the grading script, but you can use it to take notes and work through the exercise. Note that text entered in this box **will not be saved** if you leave and return to this page.

[< Anterior](#)[Siguiente >](#)

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