Exercício - Heap máximo

Renan Carlos Loewenstein

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 21 | 7 | 13 | 11 | 34 | 28 | 9 | 2 | 16 | 39 | 15 | 1 | 5 | 31 | 19 |

Sequência com 15 valores inteiros em ordem aleatória:

HEAP MÁXIMO:

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 39 | 34 | 31 | 16 | 21 | 13 | 28 | 2 | 7 | 11 | 15 | 1 | 5 | 9 | 19 |

HEAP MÁXIMO COMO UM VETOR:

HEAP APÓS A REMOÇÃO DA PRIMEIRA RAÍZ:

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 34 | 31 | 28 | 21 | 15 | 16 | 19 | 7 | 11 | 13 | 1 | 5 | 9 | 2 |

HEAP APÓS A REMOÇÃO DA SEGUNDA RAÍZ

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 31 | 28 | 21 | 15 | 16 | 19 | 7 | 11 | 13 | 1 | 5 | 9 | 2 |

HEAP APÓS A REMOÇÃO DA TERCEIRA RAÍZ:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 28 | 21 | 15 | 16 | 19 | 7 | 11 | 13 | 1 | 5 | 9 | 2 |

HEAP APÓS A REMOÇÃO DA QUARTA RAÍZ:

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 21 | 19 | 16 | 15 | 9 | 11 | 13 | 1 | 5 | 7 | 2 |

HEAP APÓS A REMOÇÃO DA QUINTA RAÍZ:

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 19 | 16 | 15 | 9 | 11 | 13 | 1 | 5 | 7 | 2 |