Algorithm: BubbleDown

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1  Procedure BubbleDown(A, i, n)
2      largest ← i
3      left ← 2 · i + 1
4      right ← 2 · i + 2
5      if left < n ∧ A[largest] < A[left] then
6          swap largest and left
7      if right < n ∧ A[largest] < A[right] then
8          swap largest and right
9      if i ≠ largest then
10         swap A[largest] and A[i]
11         A ← BubbleDown(A, largest, n)
12     return A
```