Before executing
fh_0001.insert(12)
After executing
fh_0001.insert(12)
Before executing
fh_0001.insert(13)
After executing
fh_0001.insert(13)
Before executing
fh_0001.insert(5)

12

13
After executing
fh_0001.insert(5)
Before executing
fh_0001.insert(6)

5  13  12
After executing
fh_0001.insert(6)
Before executing
fh_0001.insert(4)

5  6  13  12
After executing `fh_0001.insert(4)`
Before executing fh_0001.extractMin()
Within the invocation of
fh_0001.extractMin() → 4
Status: removed min node 4
Within the invocation of `fh_0001.extractMin() → 4`
Status: did linking step for degree 0
Within the invocation of fh_0001.extractMin() → 4
Status: did linking step for degree 0
Within the invocation of `fh_0001.extractMin() → 4`
Status: did linking step for degree 1
After executing `fh_0001.extractMin() → 4`
Before executing `fh_0001.insert(50)`
After executing `fh_0001.insert(50)`
Before executing
fh_0001.insert(21)
After executing
fh_0001.insert(21)
Before executing
fh_0001.insert(43)
After executing
fh_0001.insert(43)
Before executing
fh_0001.insert(31)
After executing
fh_0001.insert(31)
Before executing
fh_0001.insert(7)
After executing
fh_0001.insert(7)
Before executing
fh_0001.insert(82)
After executing
fh_0001.insert(82)
Before executing fh_0001.extractMin()
Within the invocation of 
fh_0001.extractMin() → 5 
Status: removed min node 5
Within the invocation of
fh_0001.extractMin() → 5
Status: did linking step for degree 0
Within the invocation of $fh_0001\text{.extractMin}() \rightarrow 5$

Status: did linking step for degree 0
Within the invocation of
fh_0001.extractMin() → 5
Status: did linking step for degree 1
Within the invocation of
fh_0001.extractMin() → 5
Status: did linking step for degree 0
Within the invocation of
fh_0001.extractMin() → 5
Status: did linking step for degree 1
Within the invocation of `fh_0001.extractMin() \rightarrow 5`
Status: did linking step for degree 2
After executing
fh_0001.extractMin() → 5
Before executing
fh_0001.extractMin()
Within the invocation of `fh_0001.extractMin() → 6`
Status: removed min node 6
Within the invocation of
fh_0001.extractMin() → 6
Status: did linking step for degree 0
Within the invocation of
fh_0001.extractMin() → 6
Status: did linking step for degree 1
Within the invocation of fh_0001.extractMin() → 6
Status: did linking step for degree 2
After executing
fh_0001.extractMin() → 6
Before executing
fh_0001.extractMin()
Within the invocation of 
fh_0001.extractMin() → 7
Status: removed min node 7
After executing
fh_0001.extractMin() → 7
Before executing
fh_0001.extractMin()
Within the invocation of
fh_0001.extractMin() → 12
Status: removed min node 12
Within the invocation of fh_0001.extractMin() → 12
Status: did linking step for degree 1
Within the invocation of `fh_0001.extractMin() → 12`
Status: did linking step for degree 0
After executing
fh_0001.extractMin() → 12
Before executing
fh_0001.insert(55)
After executing
fh_0001.insert(55)
Before executing
fh_0001.insert(51)
After executing `fh_0001.insert(51)`
Before executing fh_0001.insert(58)
After executing
fh_0001.insert(58)
Before executing
fh_0001.insert(56)
After executing

fh_0001.insert(56)
Before executing
fh_0001.extractMin()
Within the invocation of
fh_0001.extractMin() → 13
Status: removed min node 13
Within the invocation of
fh_0001.extractMin() → 13
Status: did linking step for degree 0
Within the invocation of fh_0001.extractMin() → 13
Status: did linking step for degree 0
Within the invocation of
fh_0001.extractMin() → 13
Status: did linking step for degree 1
Within the invocation of `fh_0001.extractMin() → 13`
Status: did linking step for degree 2
After executing
fh_0001.extractMin() → 13
Before executing
fh_0001.extractMin()
Within the invocation of 
fh_0001.extractMin() → 21
Status: removed min node 21
Within the invocation of
fh_0001.extractMin() → 21
Status: did linking step for degree 0
Within the invocation of
fh_0001.extractMin() → 21
Status: did linking step for degree 1
Within the invocation of `fh_0001.extractMin() → 21`  
Status: did linking step for degree 2
After executing
fh_0001.extractMin() → 21
Before executing
fh_0001.decreaseKey(82, 40)
Within the invocation of
fh_0001.decreaseKey(82, 40)
Status: spliced out 82 (now 42) and made it a root
After executing `fh_0001.decreaseKey(82, 40)`
Before executing
fh_0001.decreaseKey(50, 40)
Within the invocation of `fh_0001.decreaseKey(50, 40)`
Status: spliced out 50 (now 10) and made it a root
After executing
fh_0001.decreaseKey(50, 40)
Before executing
fh_0001.extractMin()
Within the invocation of fh_0001.extractMin() → 10
Status: removed min node 10
After executing
fh_0001.extractMin() \rightarrow 10
Before executing
fh_0001.decreaseKey(55, 2)
After executing `fh_0001.decreaseKey(55, 2)`
Before executing
fh_0001.insert(33)
After executing `fh_0001.insert(33)`
Before executing
fh_0001.insert(44)
After executing
fh_0001.insert(44)
Before executing
fh_0001.insert(55)
After executing
fh_0001.insert(55)
Before executing
fh_0001.insert(66)
After executing
fh_0001.insert(66)
Before executing
fh_0001.insert(77)
After executing fh_0001.insert(77)
Before executing `fh_0001.extractMin()`
Within the invocation of
fh_0001.extractMin() → 31
Status: removed min node 31
Within the invocation of
fh_0001.extractMin() → 31
Status: did linking step for degree 0
Within the invocation of
fh_0001.extractMin() \rightarrow 31
Status: did linking step for degree 0
Within the invocation of
fh_0001.extractMin() → 31
Status: did linking step for degree 1
Within the invocation of fh_0001.extractMin() → 31
Status: did linking step for degree 0
Within the invocation of
fh_0001.extractMin() → 31
Status: did linking step for degree 2
After executing
fh_0001.extractMin() → 31
Before executing
fh_0001.decreaseKey(53, 50)
Within the invocation of `fh_0001.decreaseKey(53, 50)`
Status: spliced out 53 (now 3) and made it a root
After executing
fh_0001.decreaseKey(53, 50)
Before executing
fh_0001.decreaseKey(56, 50)
Within the invocation of
fh_0001.decreaseKey(56, 50)
Status: spliced out 56 (now 6) and made it a root
Within the invocation of `fh_0001.decreaseKey(56, 50)`
Status: cascading cut: spliced out 51 and made it a root
After executing
fh_0001.decreaseKey(56, 50)
Before executing
fh_0001.insert(32)
After executing 
fh_0001.insert(32)
Before executing `fh_0001.insert(41)`
After executing
fh_0001.insert(41)
Before executing `fh_0001.insert(54)`
After executing `fh_0001.insert(54)`
Before executing
```
fh_0001.insert(66)
```
After executing
fh_0001.insert(66)
Before executing
fh_0001.insert(76)
After executing
fh_0001.insert(76)
Before executing
fh_0001.extractMin()
Within the invocation of
fh_0001.extractMin() → 3
Status: removed min node 3
Within the invocation of
fh_0001.extractMin() → 3
Status: did linking step for degree 0
Within the invocation of
fh_0001.extractMin() → 3
Status: did linking step for degree 0
Within the invocation of
fh_0001.extractMin() → 3
Status: did linking step for degree 1
Within the invocation of
fh_0001.extractMin() \rightarrow 3
Status: did linking step for degree 0
Within the invocation of
fh_0001.extractMin() → 3
Status: did linking step for degree 1
Within the invocation of 
fh_0001.extractMin() → 3
Status: did linking step for degree 2
After executing
fh_0001.extractMin() → 3
Before executing
fh_0001.insert(30)
After executing `fh_0001.insert(30)`
Before executing `fh_0001.insert(40)`
After executing
fh_0001.insert(40)
Before executing
fh_0001.insert(50)
After executing
fh_0001.insert(50)
Before executing fh_0001.insert(60)
After executing
fh_0001.insert(60)
Before executing
fh_0001.insert(70)
After executing
fh_0001.insert(70)
Before executing fh_0001.extractMin()
Within the invocation of fh_0001.extractMin() → 6
Status: removed min node 6
Within the invocation of
fh_0001.extractMin() \rightarrow 6
Status: did linking step for degree 0
Within the invocation of fh_0001.extractMin() → 6
Status: did linking step for degree 0
Within the invocation of
fh_0001.extractMin() → 6
Status: did linking step for degree 1
Within the invocation of
fh_0001.extractMin() → 6
Status: did linking step for degree 0
Within the invocation of
fh_0001.extractMin() → 6
Status: did linking step for degree 2
Within the invocation of
fh_0001.extractMin() → 6
Status: did linking step for degree 1
Within the invocation of
fh_0001.extractMin() → 6
Status: did linking step for degree 2
Within the invocation of
fh_0001.extractMin() → 6
Status: did linking step for degree 3
After executing
fh_0001.extractMin() → 6
Before executing
fh_0001.decreaseKey(55, 50)
Within the invocation of
fh_0001.decreaseKey(55, 50)
Status: spliced out 55 (now 5) and made it a root
After executing
fh_0001.decreaseKey(55, 50)
Before executing
fh_0001.decreaseKey(60, 50)
Within the invocation of
fh_0001.decreaseKey(60, 50)
Status: spliced out 60 (now 10) and made it a root
After executing 
fh_0001.decreaseKey(60, 50)
Before executing fh_0001.extractMin()
Within the invocation of
fh_0001.extractMin() \rightarrow 5
Status: removed min node 5
Within the invocation of
fh_0001.extractMin() → 5
Status: did linking step for degree 1
After executing
fh_0001.extractMin() → 5
Before executing `fh_0001.decreaseKey(66, 60)`
Within the invocation of
fh_0001.decreaseKey(66, 60)
Status: spliced out 66 (now 6) and made it a root
Within the invocation of
fh_0001.decreaseKey(66, 60)
Status: cascading cut: spliced out 44 and made it a root
Within the invocation of
fh_0001.decreaseKey(66, 60)
Status: cascading cut: spliced out 40 and made it a root
After executing
fh_0001.decreaseKey(66, 60)