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ADS Lab
Binomial Heap

insert (H, k) :-
H' ← MAKE-BINOMIAL-HEAP()
P[x] ← NIL
child[x] ← NIL
sibling[x] ← NIL
degree[x] ← 0
head[H'] ← x
H ← BINOMIAL-HEAP-UNION (H, H')

getMin (H)

```
* iterator = H->begin()
* temp = * iterator
while (iterator != heap.end()) {
        if ((iterator->data < temp->data)
                temp = * iterator
        iterator++;
}
return temp;
```

extractMin (H)

```
H' ← MAKE-BINOMIAL-HEAP
it = head.begin()
while (it != head.end())
        if (*it != temp)
                H'.push_back(*it)
        it++;
}
to = Remove Min and Return BHeap (temp
new_heap = union(H', to)
new_heap = adjust(H')
return H'
```