| Operation | Linked List | Binary Heap | Binary Heap * | Binomial Heap | Binomial Heap * | Fibonacci Heap * |
|-------------|----------------|----------------|------------------|------------------|--------------------|---------------------|
| MAKEHEAP | 0(1) | 0(1) | 0(1) | 0(1) | 0(1) | 0(1) |
| ISEMPTY | 0(1) | 0(1) | 0(1) | 0(1) | 0(1) | 0(1) |
| INSERT | 0(1) | $O(\log n)$ | $O(\log n)$ | $O(\log n)$ | 0(1) | 0(1) |
| EXTRACTMIN | O(n) | $O(\log n)$ | 0(1) | $O(\log n)$ | $O(\log n)$ | $O(\log n)$ |
| DECREASEKEY | 0(1) | $O(\log n)$ | $O(\log n)$ | $O(\log n)$ | $O(\log n)$ | 0(1) |
| DELETE | 0(1) | $O(\log n)$ | 0(1) | $O(\log n)$ | $O(\log n)$ | $O(\log n)$ |
| Union | 0(1) | O(n) | O(n) | $O(\log n)$ | 0(1) | 0(1) |
| FINDMIN | O(n) | O(n) | O(n) | $O(\log n)$ | 0(1) | 0(1) |

^{*} amortized cost

| Operation | Linked List | Binary Heap | Binary Heap * | Binomial Heap | Binomial Heap * | Fibonacci Heap * |
|-------------|----------------|----------------|------------------|------------------|--------------------|---------------------|
| INSERT | 0(1) | $O(\log n)$ | $O(\log n)$ | $O(\log n)$ | 0(1) | 0(1) |
| EXTRACTMIN | O(n) | $O(\log n)$ | 0(1) | $O(\log n)$ | $O(\log n)$ | $O(\log n)$ |
| DECREASEKEY | 0(1) | $O(\log n)$ | $O(\log n)$ | $O(\log n)$ | $O(\log n)$ | 0(1) |
| Union | 0(1) | O(n) | O(n) | $O(\log n)$ | O(1) | 0(1) |

^{*} amortized cost

| Operation | Linked | Binary | |
|-------------|--------|-------------|--|
| | List | Неар | |
| INSERT | 0(1) | $O(\log n)$ | |
| EXTRACTMIN | O(n) | $O(\log n)$ | |
| DECREASEKEY | 0(1) | $O(\log n)$ | |
| Union | 0(1) | O(n) | |

^{*} amortized cost

| Operation | Linked | Binary | Binomial |
|-------------|--------|-------------|-------------|
| | List | Неар | Heap |
| INSERT | 0(1) | $O(\log n)$ | $O(\log n)$ |
| EXTRACTMIN | O(n) | $O(\log n)$ | $O(\log n)$ |
| DECREASEKEY | 0(1) | $O(\log n)$ | $O(\log n)$ |
| Union | 0(1) | O(n) | $O(\log n)$ |

^{*} amortized cost

| Operation | Linked List | Binary Heap | Binomial Heap | Binomial Heap * |
|-------------|----------------|----------------|------------------|--------------------|
| INSERT | 0(1) | $O(\log n)$ | $O(\log n)$ | 0(1) |
| EXTRACTMIN | O(n) | $O(\log n)$ | $O(\log n)$ | $O(\log n)$ |
| DECREASEKEY | 0(1) | $O(\log n)$ | $O(\log n)$ | $O(\log n)$ |

| Union | 0(1) | O(n) | $O(\log n)$ | O(1) |
|-------|------|------|-------------|------|
|-------|------|------|-------------|------|

^{*} amortized cost

| Operation | Linked | Binary | Binomial | Binomial | Fibonacci |
|-------------|--------|-------------|-------------|-------------|-------------|
| | List | Heap | Неар | Heap * | Heap * |
| INSERT | 0(1) | $O(\log n)$ | $O(\log n)$ | 0(1) | 0(1) |
| EXTRACTMIN | O(n) | $O(\log n)$ | $O(\log n)$ | $O(\log n)$ | $O(\log n)$ |
| DECREASEKEY | 0(1) | $O(\log n)$ | $O(\log n)$ | $O(\log n)$ | 0(1) |
| Union | 0(1) | O(n) | $O(\log n)$ | O(1) | 0(1) |

^{*} amortized cost