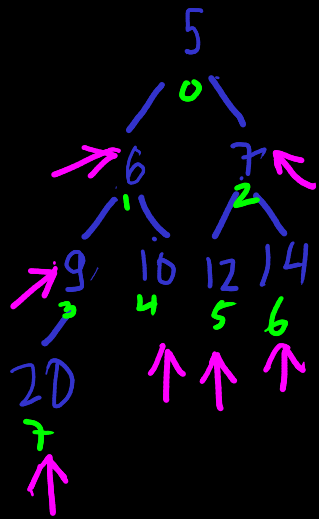


HeapSort - Part 3: HeapSort

V = 6 12 7 9 10 20 5 14
0 1 2 3 4 5 6 7

↓ BUILD MAX HEAP

20 14 7 12 10 6 5 9
0 1 2 3 4 5 6 7



```
void HEAPSORT(int *v, int n) {
```

```
    int i;
```

```
    BUILD MAX HEAP(v, n);
```

```
    for (i = n - 1; i > 0; i--) {
```

```
        TRUCA(v, 0, i);
```

```
        MAX HEAPIFY(v, 0, i);
```

```
    }
```

$\Theta(n \lg n)$