The Big-O time complexity for delMax(): O(logn).

```
while ((k*d+1) < size) {
    int i = max(k);
    if(a[i] > a[k]) {
        swap(k,i);
        k = i;
    }
    else {
        break;
    }
}
```

The Big-O time complexity for daryHeapsort(): O(nlogn).

the time complexity for swap and delete are 0(1) and for sink it's $0(\log n)$ because in all the loops the range of array is decided by two. The loop has n time, delMax() is called every-time. the Big-0 complexity of the daryHeapsort() is $0(n\log n)$