D S M E

Quicksort

Data Structures Made Easy

1. **Quicksort**

```
class quick Sort{
private static void swap(int [] quick_Array, int low, int high){
        int temporary = quick Array[low];
        quick_Array[low] = quick_Array[high];
        quick Array[high] = temporary;
}
public static void quick(int [] quick Array, int low, int high){
        int lo = low;
        int hi = high;
        if (lo >= hi)
                return;
        int pivot = quick_Array[(lo + hi) / 2];
        while (lo < hi) {
                while (quick_Array[lo] < pivot)
                        lo++;
                while (quick Array[hi] > pivot)
                        hi--;
                swap(quick_Array, lo, hi);
        }
        if (hi < lo) {
                swap(quick Array, hi, lo);
        }
        int element = lo;
        if(lo == low)
                element++;
        quick(quick_Array, low, lo);
        quick(quick Array, element, high);
}
```