Lec-8
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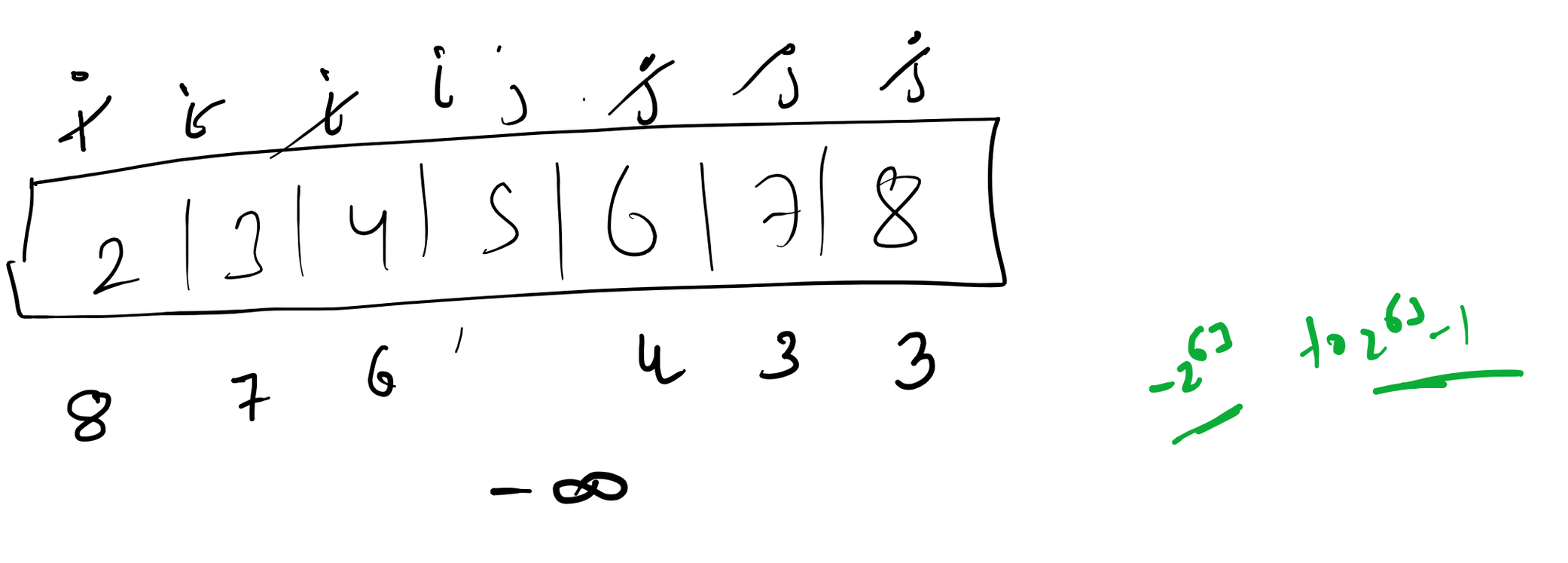
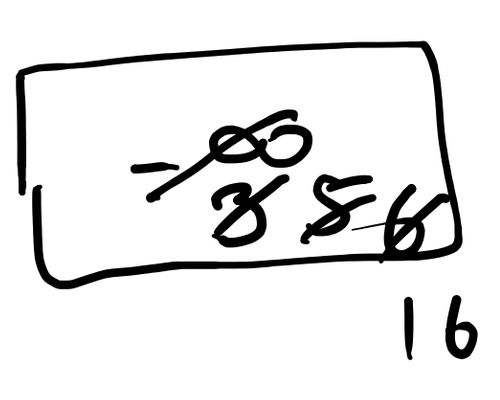
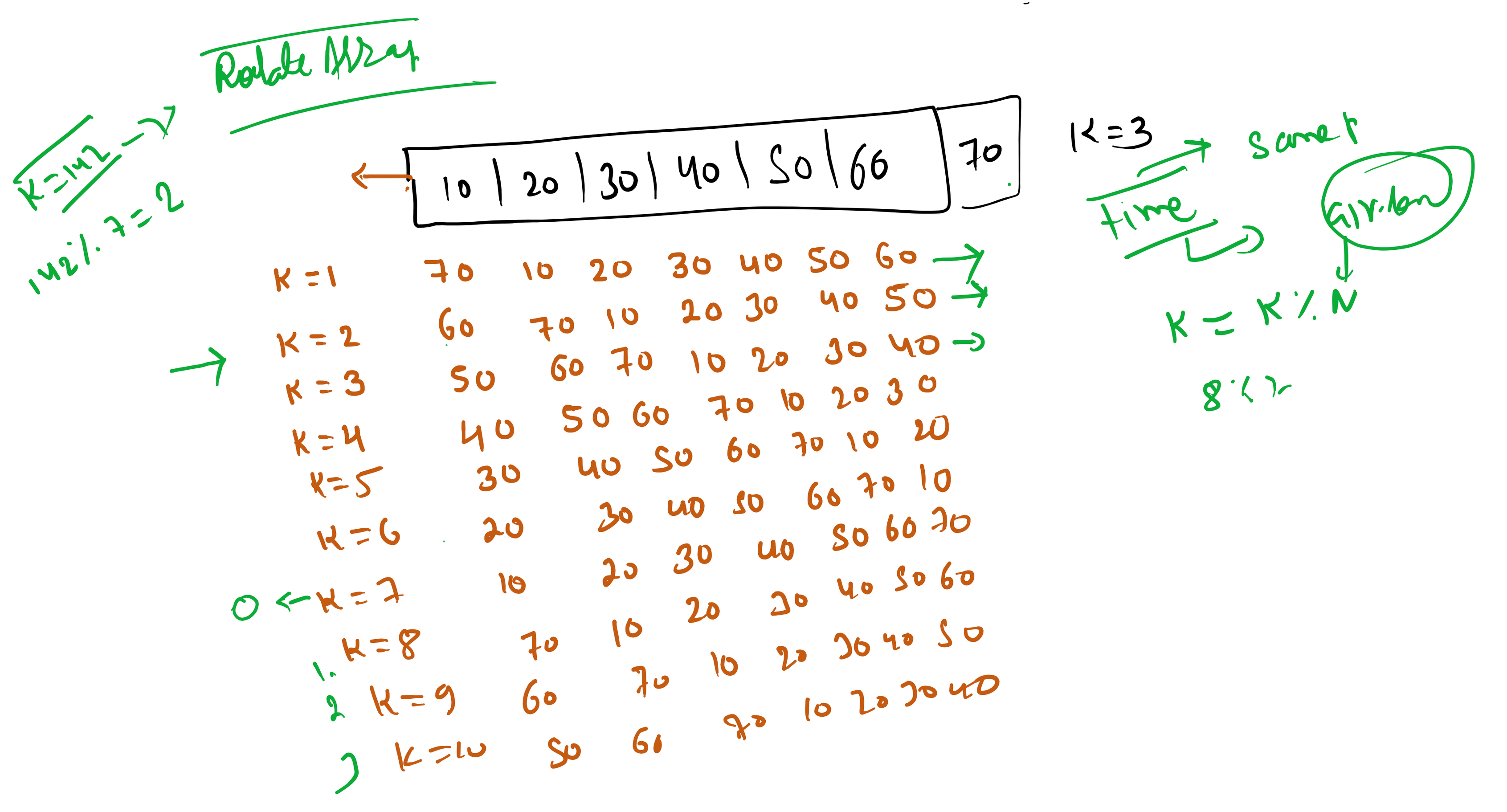
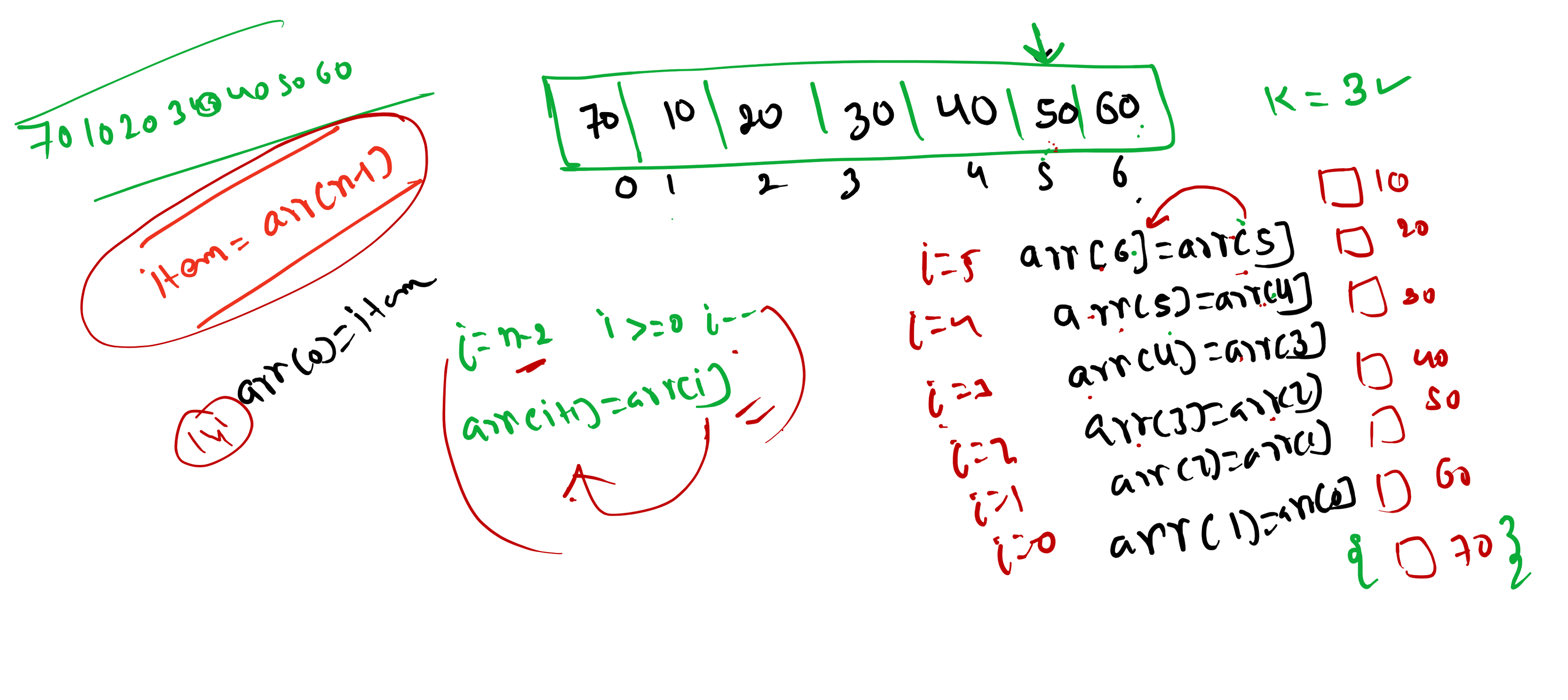


```
int[] arr = { 3, 5, 6, 2, 4, 16, 7, 8, 9 };
```

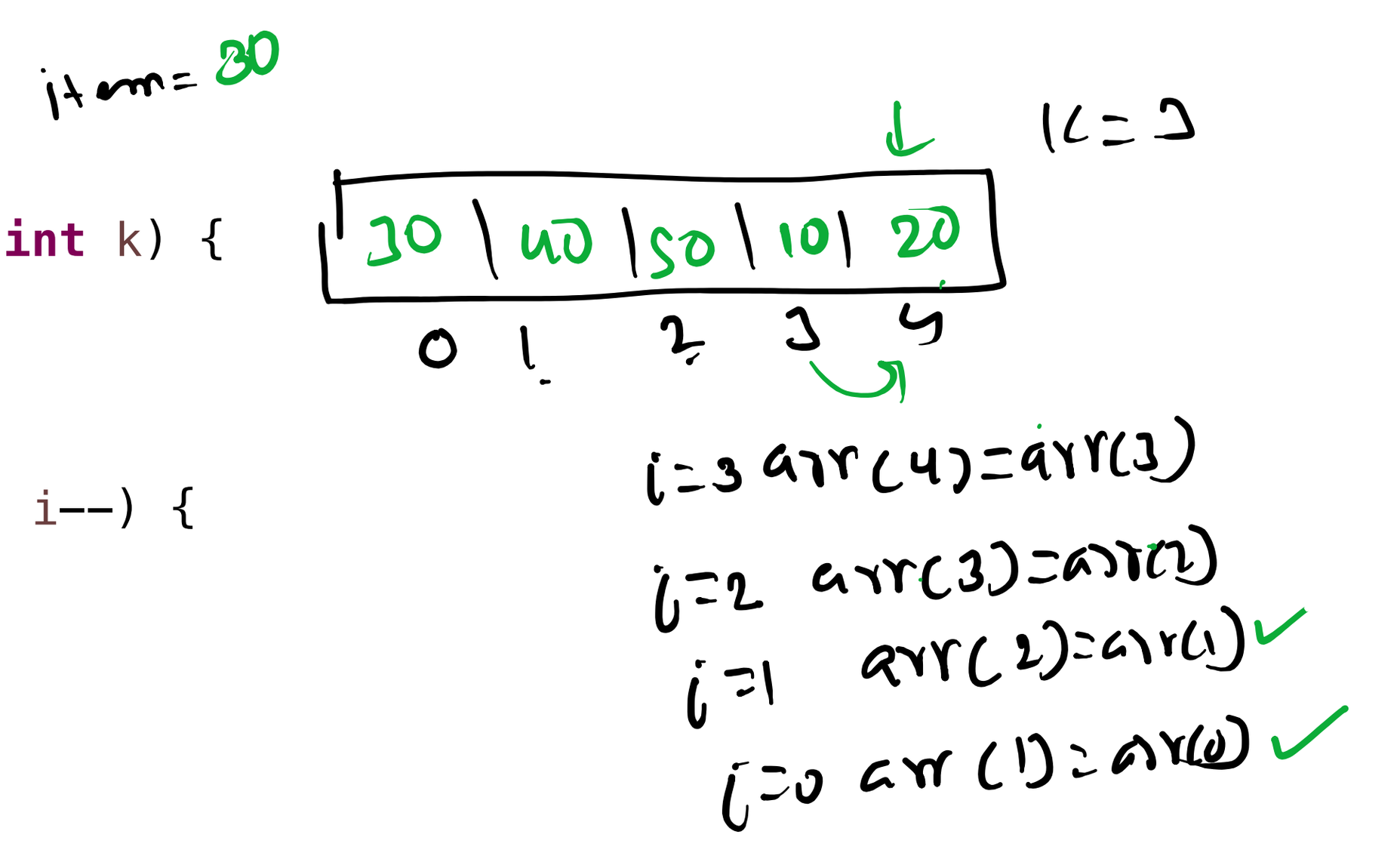






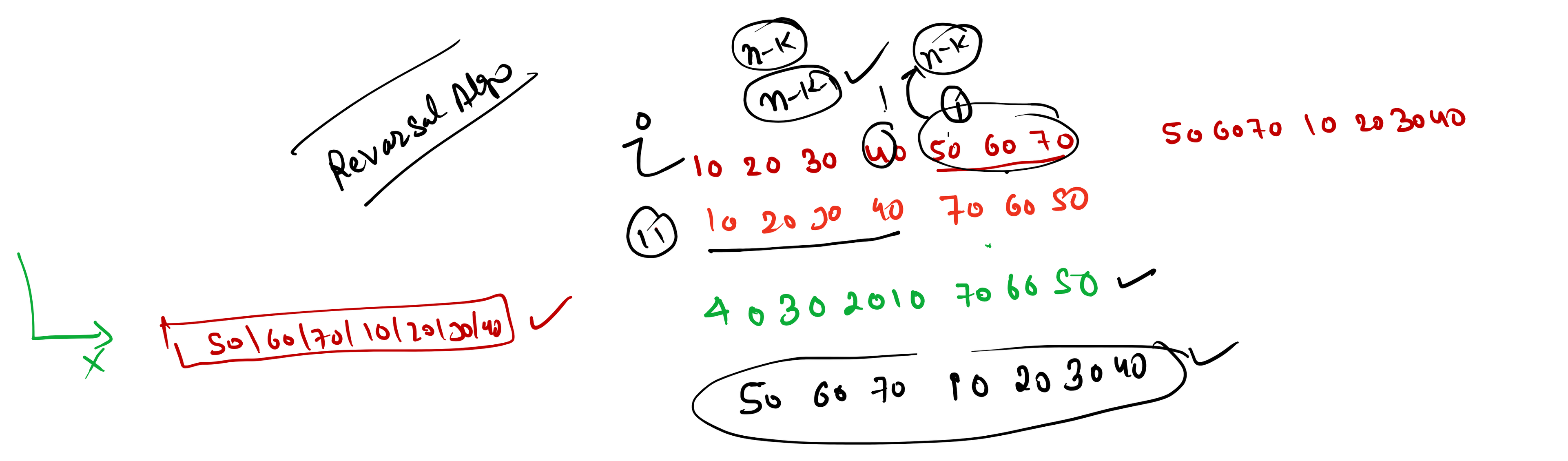
```
public static void Rotate(int[] arr, int k) {
        int n = arr.length;
        k = k % n;
        int item = arr[n - 1];
        for (int i = n - 2; i >= 0; i--) {
            arr[i + 1] = arr[i];
        }
        arr[0] = item;

    }
```



```
public static void Rotate(int[] arr, int k) {
        int n = arr.length;
        k = k % n;
        for (int j = 1; j <= k; j++) {
            int item = arr[n - 1];
            for (int i = n - 2; i >= 0; i--) {
                arr[i + 1] = arr[i];
            }
            arr[0] = item;
        }

    }
```




```
public static void Rotate(int[] arr, int k) {
        int n = arr.length;
        k = k % n;
        Reverse(arr, 0, n - k - 1);
        Reverse(arr, n - k, n - 1);
        Reverse(arr, 0, n - 1);

    }

    public static void Reverse(int[] arr, int i, int j) {
        while (i < j) {
            int temp = arr[i];
            arr[i] = arr[j];
            arr[j] = temp;
            i++;
            j--;
        }
    }
```