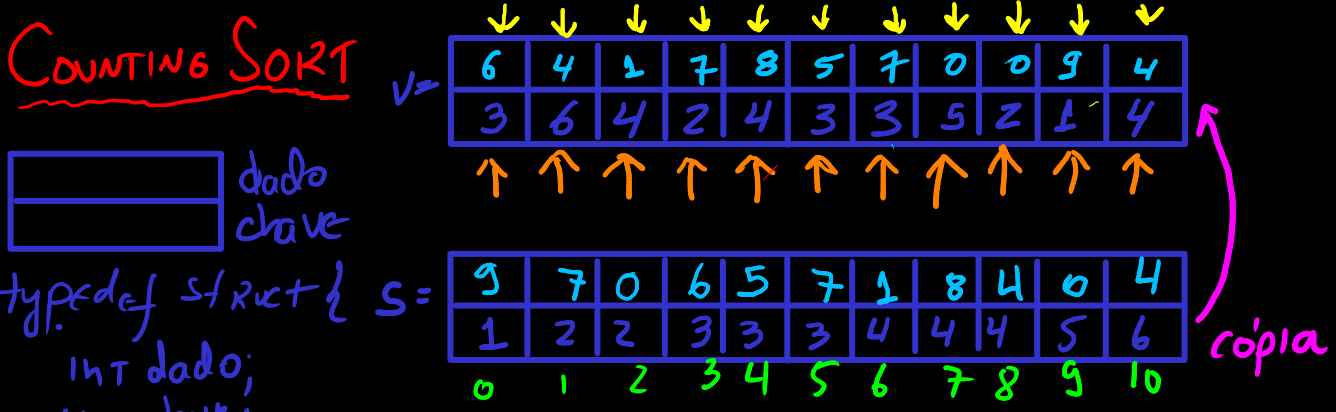
Counting Sort



C= 0 1 2 3 3 1 1
0 1 2 3 4 5 6

C= 0 0 2 6 8 9 11

```
VOID COUNTINGSORT(INFO *V, INT n){
    INT K, i, j, t, acum=0;
    INT *S, *C;
    K= MAX(V,n);
    C= calloc(K+1, sizeof(int));
    S= MALLOC(n * sizeof(Info));
    FOR(j=0; j<n; j++){
        C[v[j].chave]++;
    }
    FOR(i=0; i<=K; i++){
        t= C[i];
        C[i]= acum;
        acum+= t;
    }
    FOR(i=0; i<n; i++){
        S[C[V[i].chave]]= V[i];
        C[V[i].chave]++;
    }
    memcpy(V,S, sizeof(Info)*n);
    free(S);
    free(C);
}
```