Homework 2 Sycamore 6: 1.) Heap-Delete(A,i): if [A[i] ( A[A. heap-size] Heap-Increwe-Key (A, i, A[A-heapsize]) A. heap-size - - z A[i] = A[heap-size] A. heapsize --Max-Heapity (A,i) part 1: When all dements have the same valve, T is returned to rendered to rid on all Modifying partition,

Partition (A.p.r) EX= Ali7 for j=p to j= if AGJ ==x if AGIZE=X swap (A [; ] = A [; ]) swap (Ali+1], A[r] redun (i+1-count)/2

Estap ( Alitely, Air)

```
Bod part 4:
    Partition (A, P, r) &
     int X = Alr]
    Swap (ACT, ACP)
    int k=p
   for (int ) = p+1 + r-1)
        if (AG)(X)
          k=1+21
swap (Ati7, Ati7)
    it (ALi) = x)
 swap (A[k], A[i])

3

swap (A[i+i], A[i])

return (k+i) (i+1)
Medified so that elements will be neved after k
```





