```
Counting sord:
                           \longrightarrow 1+n+(n-1)
for i← 1 to K
 do c[i] ← 0
                            \longrightarrow 1+n+(n-1)
ton i← 1 to n
  do c[A [j]] ← c[A[j]]+1
                           \rightarrow n+n
forc i ← 2 to K
                             \longrightarrow 1+n+(n-1)
                             --- 3n
 do c[i] ← c[i]+c[i-1]
for i ← n down + 1
 dó B[c[A[i]] ←A[i] -> 1+n+(n-1)
 c[A[a]] ← c[A[a]]-1]-1 ---> n+n
T(n) = 1+n+n-1+n+1+n+n-1+2n#++2n+3n+2n+2r
    = 16 n
T(n) = 15 \text{ n} > 0 \text{ } 9(n) = n
     SO T(n) is O(n)
```