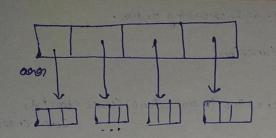
```
- Inconeasing orden.
String Bork -> Sort according to the Companison function!
      String sort (const chan * * apon , Const Int Cnt, Int (* cmp func) (const chan * a,
                                                                               Const chaon * b)){
 acron -> acronay of string
cnt - length of string acronay.
Compfun - function pointer.
 9nt lexicographic_Sort (chaon * , chaon *) -> non decending order
 Int lexicographic - Sort - neverbe (chan +, chan +) -> lexicographically non-increasing
PAR Sork - by - numof _ destinct _ chaon (chaon * , chaon *) -> nondecreasing order
                                                     (chanacters) - lexi cograph? cally
                                                                             Smallen frost!
9nt Sort - by-length (chan *, chan *) -> Samelength -, lexicograph
                                   String: Lowen case
 whul
                            NOP
 409
                            Sbr
                            wxue
 SbY
             length
                            fekls.
 fek Is
                                                                             lexicog rough reveruse
                                 adustinct chanacters
    a>b ->+ve
                                ab chanacters
                                                       Non de creasing
                                                                             non increasing
                                   Same number
    a==b+ 0
                                    non decreasing
                                                                               = \rightarrow 0
Non decreasing order
                                      orden
 bygen - 1
 3 mallon - 1
  Same - 0. I get
                                             Selks
                                                     SbV
                                  OVOP
a>b
(Swap
   Leave
                                  NOY
                                                       wkue
```



Swap

Decreasemente go to pointeen touch that pointeen Change 9th value (Stopped addorss)

ab, bc, cd \rightarrow Permutation: $3! = 3 \times 2 = 6$ ab, ab, bc $\rightarrow \frac{3!}{2!} = \frac{3 \times 2}{2} = 3$.

ab ab bc ab bc ac bc ab ab

- * $a[K] < a[K+1] \longrightarrow Find K [No such \longrightarrow lask permutation] [largest index K]$
- * langest index l. greaten than k a[k] < a[l]
- * swap a[k] and a[e]
- * Revenue sequence grom a [x+1] up to and Including Final clement.

- 1. k\$2, a[2] < a[3] | K=2
- 2. 4 % the only value larger than 3 (1=3) Index
- 3. Swap 1 2 4 3
- 4. Revenue Sequence: 1 2 4 3

 grown K+1 to n

ouorcasse: Sorred - don't worry!

o to
$$n-1$$
 (excluding)

of a[1] $<$ a[1+1]

 $K=1$;

Finally we get highest k

Possible (Index)

$$A[K] < a[E]$$

$$A[K] < a[E]$$

$$A[K] < a[E]$$

$$A[K] < a[E]$$

Revenue sevuence

Always exist.

Leave!
$$\frac{5}{2} - 1 = 1 (?ndex)$$

Stant:
$$3+6=1=\frac{9}{2}-1$$

$$\frac{3+7}{2} - 1 = \frac{10}{2} - 1$$
= 5-1

Stant
$$\rightarrow$$
 Stant index + 1 end \rightarrow end Index + 1

