```
A 4
      CINV (arr)
(1)
        n =arr.size
        1f(n < 2)
          return fo; arrz
        is (n == 2)
          return {arr[0] carr[1]; arr.sorted}
        m= n/2
        lest = CINV(arr[o...m))
        right= CINV (arrEm...n))
         merged = combine (lest.arr, right.arr)
        ans = left.ans+ right.ans+ merged.ams
        return £ans, merged.aur}
    Divide:
     Eun gruna racenta 22, mo foztpanjam O inteprină

Cem gruna racenta = 2, mo npolopumo (ici & a; >a;)

Falso O
     Cem yours nacute >2, no gener nacut renssaran.
   Conquer: Desyppenso buzsitaen CINV gua 2 rainen munita
   Combine: Cutaem 2 rainer 6 ogun navns, renorizepor
     nemog 2 yearamenen (napamenene crument untepum)
  T(n)=2T(=)+O(n+m) (gho yangamene)
   Juleprugenne: O(n+m) = O(n)

Dok-bo: Ryn generum naemt zamroù gunn m=n, unore m=n+1
orens innui
lung
   => O(n+m)=O(n)=O(m)

stamp majora

=> T(n)=2T(n/2)+O(n) => k=1, n=2, b=2 \rightarrow 1=\log_2 2 \Rightarrow T(n)=O(n \cdot \log n)
(2) Kymens goldmus evye ogun yusu O(n), zge bygen mobymus
    left. arreij > 2. rightejj => count juv=lest.or. size - i
   Возным умиле бузит созимировых
   B gryson yenne Eyen nous unbepein
   Cuonsomo Engun maria rue Tin) = O(n logn)
```

17.K. om korp. re zatueum.9