```
ADA: QUICK SORT
                          33 35 29
             12 22
          19
 -> 26
  n= 7
Quicksort (0, 6)
     ; $ (0<6) - T
          particition (0, 6)
             Pivot= a[0]= 26, 1=0, j= 6
             while (o <= 6) - T
                  while (26 <2 26 83 0 <26) - T
                          1=1;
                  Lohile (19<=26 98 1<26) - T
                       122;
                   while (12<=26 99 2<=6) -T
                         1 = 3;
                   while (22<=26 3 8 3<=6)-T
                         P=4%
                   while ( 33 <= 26 84 46:6) - F
                   while (29 > 26 99 67=0)-J
                           J=5;
                   ashile (35 > 26 99 5720) -T
                            j= 4;
                    while (33726 88 4720) -T
                    while (22 726) - F
                     if (4<3)-F
                    else { temp = a[0] = 25
                           a[0] = a[3] = 22
                           a[3] = temp= 26
               while (4< = 3) - F
          y, return 3;
```

Quicksof (0 , 2) if (0<2) - T Partition (0, 2) Pivote 2 a[0] = 22, 120, 120 while (0 <= 2)=T while (22 <= 22 88 0 <= 2) - T 1=1; 49 1<22) -T while [19 < = 22 122; while (12 <= 22 8 \$ 2 <= 2) - T while (26 <= 22) - F While (128 >= 22) - F if (3<2)-F che { temp a [o] = 22 a[0] = a[2] = 12 a(2) 2 temp 2 22 While (3 <= 2) - F retern 2; 12 19 22 26 33 35 29 Audisot (0,1) 14 (OC1) -T 2 partition (0,1) pivale = a[0] = 12, i=0 9=1 while (o <= 1) - T while (12 <212 + + 0 < =1) -1 P=1 while (19 <=12) - P while (19712 88 1>=0)-T S=0; while (12 > 12) + 12 if (1<0) - F clie { temp = a[0] = 12

a[0] = a[0] = 12

3 while (1<0)-p 3 a (0) = temp = 12

```
3. return Oi
           # 12 19 22 26 33 35 29
           Quicksoft (1, -1)
                if (1 < - 1) - F
           Quickers! (1,1)
                if (1<1) -1
    Quiclesof (3,2)
       if (3<2)-P
Quilgost (4,6)
  if (4<6)-J
           partition (4,6)
                 pivot = a[4] = 33 , 1 = 4 , 5=6
                 while (4 <=6) - T
                    while (33 <= 33 PP 4 <= 6)-T
                   while (35<= 33) - P
                   While (29 > 33) - F
              if (5 < 6) - T
                          temp = a [5] = 35
                          a[5]= a[6]= 29
                           a (6) = temp2 35
                3 # 12 19 22 26 33 29 35 while (5<=6) -T
                    wskile ( = 33) - F
```

```
While (29<= 33 39 5<=6)-7
              [ 26]
          while (35<=33) - F
          while (35 > 33 13 6>=4) -T
              3=5
          while (29733) - F
           it (6<2)- F
           che { temp = a [4] = 33
                 a[4] = a[5] = 29
       a[5] = 33
while (6 <5)-P
   Ruicksoft (494)
£# 12 19 22 26 29 33 35
        if (4<4) - F
    Quickroit (6,6)
      2 17 (6<6)-F
```

Result of Rucksont

12 19 22 26 29 35

anickont Tree !

