24200/s, RMJE, Suyerry QSORT -en 950rt(nil) = nil " 91 1. 95ort (2111013141nil). eq 450rt (x 1 n/4) = X1 n/4 . 192 -Partition (2, 1/0/3/4/nil, nil, nil) " by (93) eg 45ort (XIY/L)=Partition (X, Y/L, níl, níl) -vit 1 < 2 then Spartition (2, 013/4/ mil, 1/nil, nill) else flortition (2,013/4/nie, nie, 1/1/4)/ 111/6/10/6/10/12) en Purtition(X, nil, LL, RL) = 950xt (LL) else) @(X/ gsort(RL)), 111 Part 1 Partition (2,01314/nil,1/nil, nil) 1-69 (it1) + it 0<2 then & partition (2, 3/4/nit, 0/1/nit, nit) } eq Phrtition(X, Y | L, LL, RL) = if Y < X else Sportition (2,3/4/hit, 1/hit, 0/hi4) 9 then Spartition (X, L, Y | LL, RLS else Sportition (X, L, LL, Y | KL) S. 101 PALL else 11 ("by (x) eq níl@ L2 = L2 " @1 eq (XIL)@L2 = XI(L@L2) "@2 eq it true then g x g else g Yg = x will *Partition(2,3/4/nif,0/1/nil) in by(H1) eq it folse then 9x felse 949 = 4 , n it 2 -oit 3<2 then Spartition (2,4 Iniq, 3 lol1 Inil, nil) else Spartition (2/4/nil/011/nil/31nil)4 ... by (Part2) +it talge then (11 = 11, by (<) + Purtition (2, 4/hil, 0/1/hil, 3/hil) ... by (it2) + it 4<2 then fortition (2, nit, 410/11/16/16, 3/ nit) belse fortition (2, nit, 0/11/16/, 4/3/nit) 5 "bf (Patt2) to 1 talse then 9 11 Selses 11 Subp (<) -> partition (2, nil, 011/nil, 4/3/nil) (166 (1/2) + 950rt(0111h1) @ (21950rt(413/h11)) 11/67(POrt1) -> Partition (0,1 [nil, nil, nil) @ (2 (qsort (413 [mil)) ... by (93) + (it 1 < 0 then & partition Co, nit, 1 Init, nit) felse frontition Co, nit, nit, 4 nit) () @ (219 sort (413 [nit)) " by (pw+1)

```
t Purtition (0, n(1, n(1, 1/n(1)) @ (2/95 ort (4/3/wil)) ... by (1/2)
+ (950H(hil)@(01950H(11hil)) @ (21950H(4131hil)) ... 64 (Part 1)
+ (ní1@(ol gort(1[ní1))@( " ) "· bb(91)
-> (n[10 (0/1 | n[1])0 ( " ) " by (92)
+ (0/1/nil)@ (2/950+(4/3/nil)) 'n by(@1)
+ (0|1|n11) @ (2|Partition(4,3|n11,n11,n11)) 111 by (93)
+ ( ") @ (21(1+3<4+hen & partition (4, nil, 31 nil, nil) & else & Partition (4, nil, nil, 31 nil) {))
                                                              " by (Part 2)
- + ( ", ) @ (2 l(it true than 5 "
                                            gelseg "
                                                                5))/16/2(<)
-> (")@(21 Partition(4, ní1, 31hil, níl)) "by(41)
- (") @ (21(950H(3/n/2)@(41950rt(n/2))) 1 " by (Part 1)
+ (") @ (2 ((3 Inil) @ (41 950+ (nil))) 1- by (92)
+ (") @ (21(C31 ní1)@ (41 ní1))) "br(91)
-> (")@(21(31(n(1@(41n(1)))) " by(@2)
-> (") @ (21 (31 (4 | níl ))) 1 = by (@1)
-> 0 (((1 | nil) @ (2 | (3 | (4 | nil)))) 111 bb (@2)
+ 0 (11 (n12@ (21(31(4 (n(2))))) 1" 6 / (@2)
- 0 (1 (2 ((3 (4 (níe)))) ... by (@1)
 = 0 1 1 2 1 3 1 4 1 níl
```