Polick sort

Step 1 : Se lect our dernert of Approch: Step 2: On that element all High I fich has been smaller show that Styp 3,- biff Side be guester from their element led, 10 16 8 12 15 6 3 95 frivot 10 (ic=j)

Thesement i until you gird element is > 10 16 > 10 go, 10 16. Decrement j' until you final alement Smaller from 10 5 100

the lackage than

10 5 8 12 15 6 3 9 16

Therent i — wet gried elect

S 12 revi smalle etlert is

exchage.

10 5 8 9 15 6 3 12 16 confirm-Now 12 > 10 & 3 < 10 Dwayo 10 5 8 9 3 6 75 12 16 10 5 8 9 3 6 15 12 16 doen't dways it j bez
book it j bez
book it j privat \$6.5 8 9 3 (10) 15 12 16 Now, Jufan Quick fort Te contentuely.

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partertion (1, h)
       d pivot = A[1];
           whi (ic))
                  p while (ACIJ & privot);
               do , si -s; & Ris 7, privot);
       ([Ci)A (Ci)A);
        Swap [ACI], ACj]);
Quich Sort (-1, h)
         of if (lch) 11 out bound two clement

J= pantation (l,h);

Quich for (l,j);

Suich 8or (3+1,h);
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-tualyers of Quich son (O(mlogon) Ped Case) 11,15 Herone parter is anddle - [1,7] Here compare the element and exchange the.

80, ___ n tim

1 = perstentin (1, h) they all our divide by 2 againly n/2 2/2. 0 (m x lofz) 1 partetion of is done always on Should be Josted-C 123 (2)567

worsd come

Spiret

aprilady

arrivady

arrivady pontation is close at the bez almost beginning of list gooded $\frac{1}{2} = o(n+1)$ = O(ws) (weegin) 80, It is booklam.
80, Los Sowing this don't beleet tet olenet as @ Select the middle clamet on private @ Random Clement is private