Selection, Invertion, Bubble - O(n2) Muy, Herp, Quich - O(nbpn) Count, Radix, Shell, Buchet > o(n) Country Sort - Country - count - frequency of each demand. 109710996775 Sliph countary [1+] 7 0 0 0 0 0 0 0 0 0 0 3 0 3 0 72 0 1 2 3 4 5 6 7 8 9 10 count am [10+] = countam [11] Num + Step 5 6 7 7 7 9 9 9 Limitation to live inleger problems Countair [1+109]. (2) 10⁹ (2) TC -> O(n+10) Stre of Arr/ Maraelement.

Ino felements in any SC -> O(J+ Mar_demond). Redix Sort- Non-comportion sorting algo. Input auri - Sort

O Find max-element and no. of digiti in it.

001

Haxelyment = 904

No. of Signis = 3.

74

001

904- 046. 14:160 005- 074- 062	001 062 whitersh 964 => 074 005 046	901 905 005 046 062 074	001 005 046 062 074 904
9 04			

Hlw: Shell Sort.