

* selection sent * WINE J: 2 17 19 12 13 0 Sort sorted - 0 12 2 3 7 9 -) what is selection Sort 9 L) dift sounds/passes Genalet dement place at its sight place 64 25 12 22 (11 -> arre] > 64 25 12 22 11 Round I: 1 - 0 Swap 25 12 22 64 Round 2; i=1 swap 12 25 22 64 Round 3: 122 Round 4: 11 12 22 4 64 1=3 -) last element will be surred automatically. Total Rounds = n-1

-> here there will be 2 for loops 1) ower i=0 ->n-2 for sounds i<n-1 2) Juner: to tind min of array. j=i+1-> n-1 ĵ<m Space complexity -> Constant Time complexity & O(n2) Best case: O(n2) M-I = 1+2+3+ _ _ _ (n-2/+(n-1) = n(n-1) = n^2-n Use case: La group weeter/hist a size small. what is stable Algo / Unitable Algo? - stable sooting algorithms preserve the relative order of equal elements, while my touble sooting Algo don't. In other words stable sorting maintain the position of two equals dements relative to one another,

