Hands on 2 2) Arque concerness of selection sort SELECTION-SORT (A,M) for i=0 to n-2 0 min = [for j= i+1 to n-1; it A [i] < A [min] : min = jSwap (ACI), A [min] At the sturt of each iteration, the birst i elements of the array are the smallest i elements in systed order. Bone cardier initially the sorted portion is empty. The algorithm tinks the smallest element in the army and places it at INJEX O. Assuming that after i Herutions, the first i elements are correctly smoted. At the (i+1)th Heartion, the algorithm finds the smalled dement in The unsvoted postsion element placed at A[i] (A[i] to A[n-J])

this holds for all i, means the selection soft correctly sorts the sarry.

After the n-2 iterations the owner loop terminates, the array is huby surred, and the algorithm teaminates

Hence, Selection such is correct.