D. 19-15-12961

Solation Sort void soletion sort (int A[], into int i, , mint, temp; for (i=0; bicn-i; 1++) 1000, internal for ()= i + 1, jen, j++ if (A [] Z A [min]) min =), end for if (min! =1) temp = A[i] A[min] = temp DO MOON end for goods no sular delicaso 114

Analysis

Bust cose:

Arrary, both loop Dill chak for each For sorted best case, 2nd loop wont executed elevert for time but loop will dek br och n merken of clement will cetch element. Always n Limes.

Wrost cose:

of an Algorithm The complexity function 15 f (n) = 3n2+7 . The time copleaidy of worst case is:

Average core: All possible values one arraye time. Both 100p will excepted for in times. Away the = $\frac{1+2+3+--+(n-2)}{2}+(n-1)+n$ = $\frac{n(n+1)}{2}=\frac{n^2+2k}{2}$

. The fine complexity of avery conthe = 0 (h2)