Michael Cooper 17C Miltern - Work for 1-3
1:near Search > 12745 val= 5
Binary Sourch > 12745 17 17 Low m:) High
Each iteration the problem reduced by half or logz" which can be written us o(logN)
(an be Litten us O(logN)
Bable So-t
1432016230141101234
274201720314 1201274
3 3 2 4 0 1 7 20 13 4 N-1 Sun/5 the first loop
4 32041 9 20 13 4 N-2 Sun/5 the Second loof
3 3 240 1 g 20 134 N-1 Sun/5 the first loop 4 32041 9 20134 N-2 Sun/5 the Second loof 5 7 20 1 4 10 0 1 2 3 4 N-7 Sun/5 the first loop or n O(n2)
S-loction Sof
O(N2) Same logic us bolble Sort, Check for
Smallost Nember and Small tran Contin-a
Simple Vactor Jush
O(n)-eithor array Size of max Size and apt/ [urrays. 28++]= hel
O(n)-e:that array S:2e of max S:2c and aptr Enrays. 2l+7=10d or copy into bisger New array which is O(n) and pich now valle.
and pich nam Value.

Simple voctor afficient Now

vorst inse is o(n) Similar to provious vorsion

but 1055 likely to occur since memory is

doubled.