```
void merse (int x L, int nL,
            int R, int nR,
     // we know L, K are sorted.
   // orl = site of L, nR = size of R
// S is at least NL+NR elements
  // Then we will fill 5 with contacts
   Pof L, R in sorted order.
   int iL = 0; iR 20; iS = 0;
    while (iL<nL && iR<nR) { // both still have elects
        if (LCiL3 < KCiR3)
           S[:S++] = L(:L++];
             5[15++] = R[.R++];
    11 one var out.
    while (iL < nL) SCISH3 = LEILH);
    while (iR < nR) SCiS++3 = R[iR++];
    rerse Sut (int x A, int n, int x Aux) {
       I have case: n <2 => nothing to do!
```

// Pick an index mid = 11/2.

// Recursively sort A [O]..., mid) and

// A [mid+1]..., n-13.

// Note: For the socand call, use (A+mid+1)

// as the array! And be careful to set

// the size right!

// Finally, merge the two sub-arrays

// to sether (using Aux) so that the

// result is completely surted.