DAA PRACYPICAL

Que: Program for Merge Sort.

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Aus:
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```
# Ludude Rostream}
using ramespace Ad;
void merge (int arr[], intl, int m, inter)
 j
      9wtn1=m-1+1;
       int 12 = x-m;
       Put L[n1], R[n2];
       for ( aut 9=0; 9< n1; 9++)
          [[i] = arr [] +i];
       for ( mt j = 0 ',j < n2; j+)
           R[i] = arr[m+1+j];
      qut 9=0,9=0, K=1;
     While ( 12 n1 && j2 n2) {
          ? ( L [ i] <= +4] ) {
             arrik] = Lli];
              9++;
         esse ?
            arck]= P[j];
            344;
```

K++;

```
While (1×n1){
        am[n] = Lli];
         14:
         K++;
  While (jLn2) {
      am[x]=klj];
        344;
         Ktt;
       3
  3
void were bot (intarre], jut 1, lut r) {
     91 ((4=4)6
            return;
      ent m=(l+r-1)/2;
       merge Sort (arr, m+1 r);
merge Sort (arr, m+1 r);
        meage (arr, l, m, r);
    3
void muthus (ent AL], ints)
        for (int 9=0; 125; 9+4)
            Cout LL Ali] LL" "
      re
```

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Main fundon

Pud main()

int am[]= {12,58,17,14,18,36,45}

int amsze = szep(am)/szep(amsol);

contex (fiven amay elements on; printAus(am,ansze);

merge Sort (am, o, amsze -1);

contex and;

contex ali;

contex dorted array is on ansie;

postatallaro, amsze);
```

return 0;

UUYPUY:

GPNen array dements: 12 58 17 14 18 36 45 dorted array 96: 12.14 17 18,36 45 58