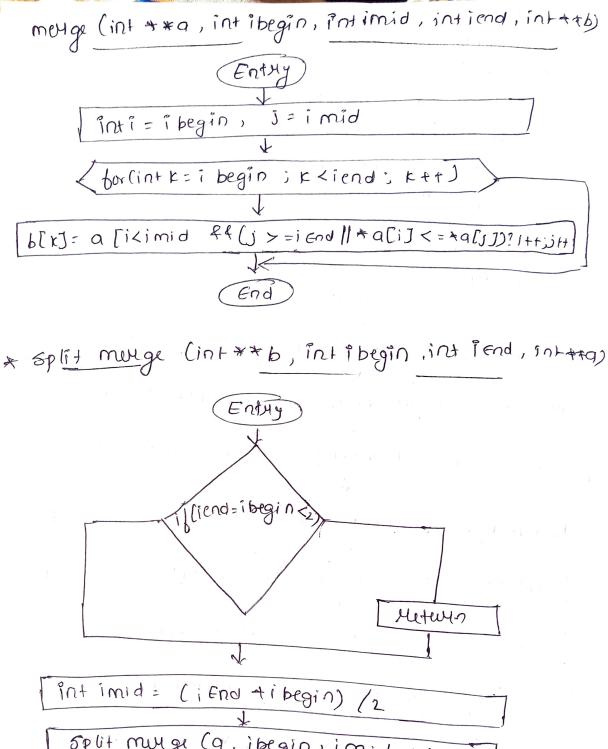
```
Algorithm :-
Stepl: staut
 Step 2: Input al] = {64,82,45,125,15,268,1,2,
                        (25, 25 g
 Step3: mouge (Int **a, intibegin, Intimid, intiend,
        splitmerge (Int *+ b, intibegin, intiend, int +19)
stepu:
        * * mengi sort (Int *a, Int size)
step 5:
        Int size = size of a / size of a [0]
Step 6:
        Int * * Jul = murgesout (a, size)
Step 7:
         Display souted among element.
Step8
        for (inti=0; 1< size; i++)
54ep9:
         Display * Met [i]
        bree (Hu+)
Step 10:
         5+0 P.
 87ep 11
 merge (Int ** a, Int begin, Infimid, Intiend, Int ** *b)
Styp1: Entry
        Inti = i begin, j = imid.
544P2
       for (int k = ibegin; k<iend; k++)
Step3:
        b[k] =a (izmid ff (j>= iena | "a [i] <z a [i]) i++ sjff
Step 4: End.
 split menge (Int ** b, Intibegin, Intiend, Int * *9)
 stepl:
        ENIMY
 step2: if (iend -ibegin < 2)
          JUtUHN
          Intimid = ( i end + i begin)/2
 5tep 3:
            split murge (a, ibegin, imid.) }.
5-RP4:
          split murge (q. imid, iend, b)
 844 5
          murge (b), îbegin, imid, iend, a)
etep 6:
         End.
 Sty 1:
```

Munder soul (intid , intolde) 5th? Int the sut = mat mallor (Size & Sign of + tell) 5Kp3: Int the temp = malloc (size + size of " temp) 6xp4 for (int i=0 six size ; i++) sur [i] = temp [i] = a +i split murge (temp, 0, siz, Her) sup 6: bree (trup) sections sut. 310w (hourt Staut) Input 9[] = {64, 82, 45,125, 15,265, 1,2, metge (int ** 9, inti begin, intimud, inti End, int ** 6) split menge (Int ++b, intibegin, intiend, int + * 9) ** murge sort (int *a, int size) Int size = size 06 9/ size 08 9 [0] * * Met = munge sort (a, size) INI avulay element Display 50×ted for (inti=0; i<6136; 1++) Met [i] Display 45 free (ret) STOP



split muge (a, ibegin i mid, b)

split muge (a, i begin i i mid, b)

muye (bilbegin, imid, i End, a)

(Grid

** merge sort (int *a, intsize) Entry 101* * Het = malloc (size + size 06 + MLF) JOH * * temp = malloc (size + size of + temp) bor (inti=0; i < size; a++) suct [i] = temp [i] = 9 +i sput muge (temp, 0, size, me free (frup) Butwo rut