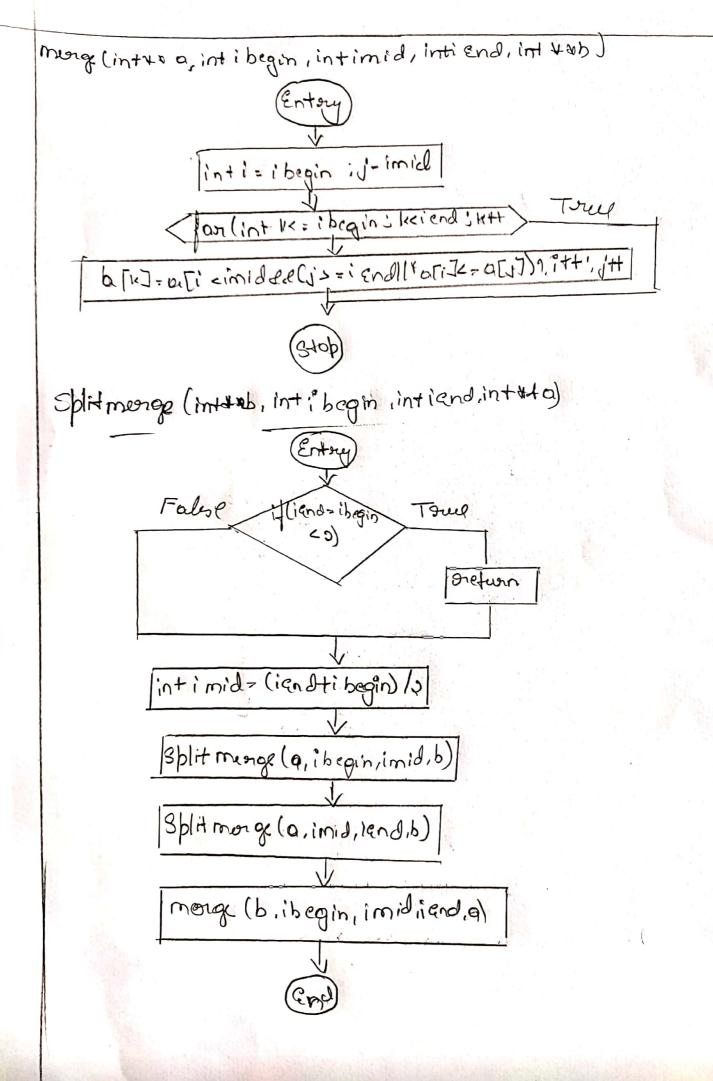
20thwik Shetty 4AL1975045 Algorithm: merge 800tt Step1: - Start Sty 3:= Input a[]= \$64.52,45,125, 15,268, 1,2,25,2,53 8tch 3:- morge (int. +40, inti begin, intimid. inti End, metatb) Stephe Split monge (introb. intibegin, intiEnd, int-p.Da) Stylo 5: - ** morge sout (int *a, int size) Step 6 = in+ siza = Siza dalsiza da [0] Step 7 = int + + oret = menge 8091+ (0,812e) 3tys :- Display souted ownay dement Step a :- for (int i-o: iz 8iz; 14) Displayor ret[] Step 10 : fore (orth) Step11= 8+06 morge (int + a, inti begin, intimid, intiend int + +b) Step 1: Entory Stop 2 = intiz ibegin, d=imid 87-p3:- foor (int k=i begin: K ziend: F+t) b[c]=a[icmidee(js=iend 11 to [i]=to[i]) bittijtt] Styl 4: - End Splitmonge (int * 4b. intibegin, Intiend, int * 4a) Step 1: - Entry Stepa:- if (i end-i b cgin < 2) nouter Stefo:-int imid = (iendtibegin)/s atiph :- Splitmonge (a,i begin, i mid.b) Step 5:- 8/11 merge (a imid i end b) 3tep 6 :- morge (b, i begin, i mid, i end, a) ester 7 > cond

Morge sout (intto, int size) Step 1:- Entry Step 0:- int + + out - oradmally (sin + size of + out) Sty 3:- int + temb=malk (size + size of + temp) Stephi- foor(int i=0) 1< sizal it) ret [i]= temp[i]= a+1° Steps = split morge (temp. 0, size red) Step6 - free (temp) Step 7: - oretronord flowchart Inhutal J. (64.80, 45,125, 15.365, 1,3,35.3,5 mong (intero. inti bogin, intimid intimidi ntiend, intab) Splitmenge (in+4x b. inti begin, intiend. in+4xa) * the mange sont (int & a, intsize) int size: size da (sixe of a [a] 14+ 3 ret = murg(5091+ (0,3170) Display souted avergy element on (inti=olic size) it Jours Display orat [i]



merge 8001+ (int+a, intsize) int ++ oret = malle (size +31 ze of + oret int * + 4 comp = melle (8120 + Size of ++ime) for (inti=0:17biza) 100} oret [i] = temp [i] = 01+10 Split merge Homp, D, Size, oret tere mento re