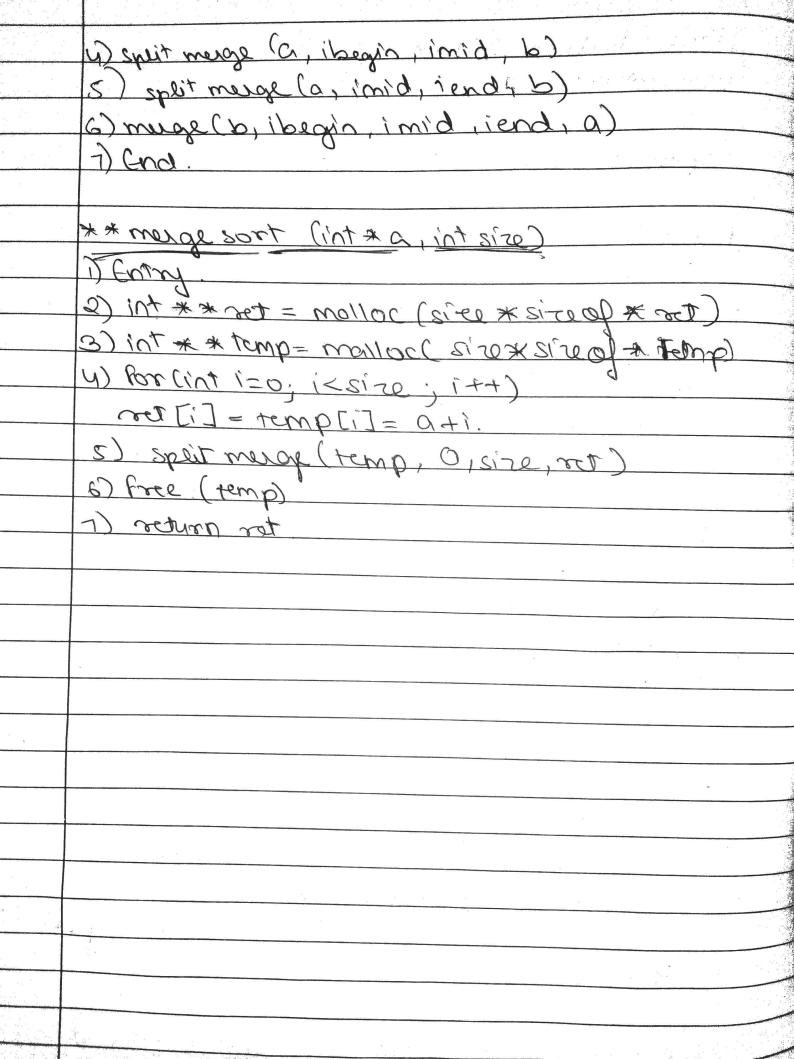
	Nome: Notaska Saldanna.
	USN: LAUGCEOST.
	Implement marge Sort.
	, ,
	Algorithm:
	DStart.
	2) Mput at ] = {64,82,45,105,125, 268,15,268,1,2,25,2
	3) marge (int **a, int i begin, int i mid, int lend, int **b)
	4) splitmings (int * * b, int ibegin, intiend, int * * c)
	(5) * * menge sort (int *a int size)
	6) int size = size of al size of a [0]
	1) int & x ret = mage sort (a, sièce)
	8) Diplay sorted array eliments.
	9) Por Cintizo; i < Sizo; i++)
	Display * vet [i]
	10] Free ( rept)
*	11) Smb.
	neige (int * & a, int i begin, intimid, intiend, int * +b)
	A .
	2) int i= ibegin, j=imid
	s) ror (int k = 1 bears : k-ised : 1)
	b[K] = a[i < mid 27 Cjo>=iend 11 *a[i]<= a[j];
	(y) (rd.
	Split mange (int ** b) intibegin, intiend, int * *c)
	2) if (I and - ibegin<2)
	raun.
	Dint imid = (iend + ibagin) 12
· .	



Plowchort (Start) input a[]=[64,82,45,125,15,268,1,2,25,2,8) menge (int \*\*a, intibegin, intimid, intiend, int \*\* b) split mange (int \*\* b, Intibegin, intiend, int \*\* a) \* \* mergesort (int \*a, int size) int size = size of a I size of b. int \*\* ret = merge sort (9, size) Display sooled array elements. (Por Cinti=0; i<size; i++)) Display \* retti] free (ret) (STOP)

muge (int \* \* a , int i begin, int i mid, int i end, int \* \* b) (Emry int i = i begin , j = imid @ for (int k= ibegin; k<iend; k++) b[k] = a [i<imid 22 Ci>= iend11 \*a[i]<=\*a[i]\*i+ij+i CTO B split mange (int \*+ b intibegin, intiend, in \*+ ta) (entry Follow (iend i begin True return int imid= (iEnd+ibegin)/2 spirtneage (a, ibegin, imid, b) spit muge (a, im'd, iend, b) meege (b, ibegin, imid, i end, a) Gnd

<b>\</b>	at the second of Civit At a live to 1/20 )
<b>\</b>	** mergy sort (int *a, 1nt size)
	(Contra)
	int ** ret = malloc (Size * size of * rut)
7-	I'nt * a temp = molloc Gize * size of a temp
<del>\</del>	
1:	(Por Cinti=0; i<0 ; i++)
٠	
	ret [i] = temp[i]= a+i
	splitmerge (temp, 0, size, set)
	Price (temp)
	( Jerum za.)
al.	
<b>*</b>	
<b>*</b>	
LAN 1	