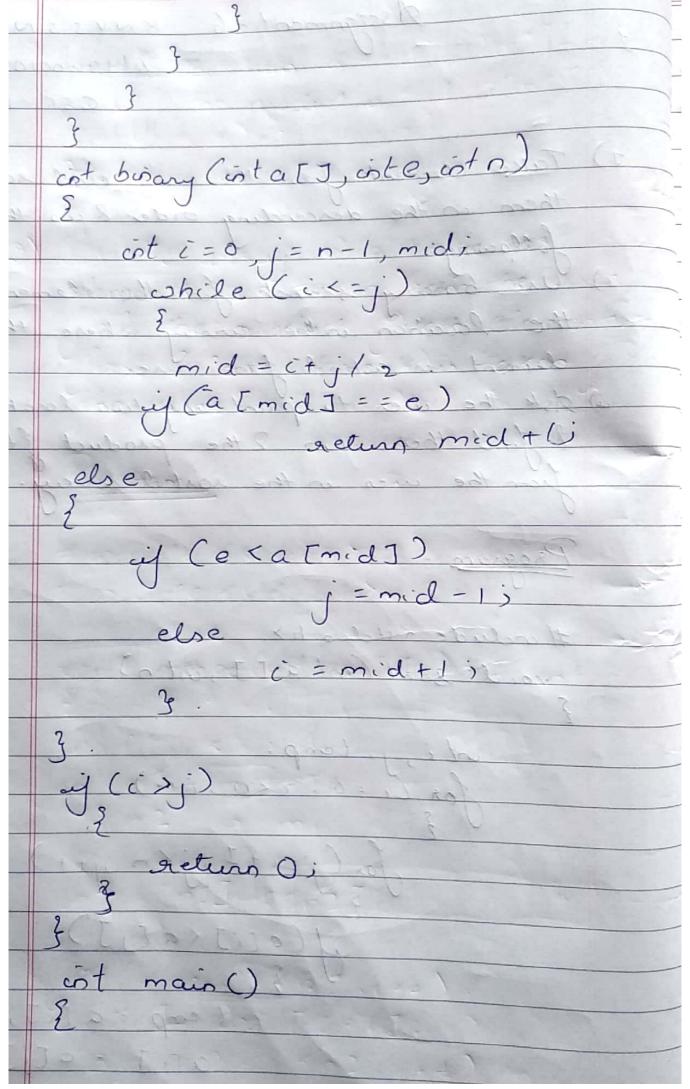
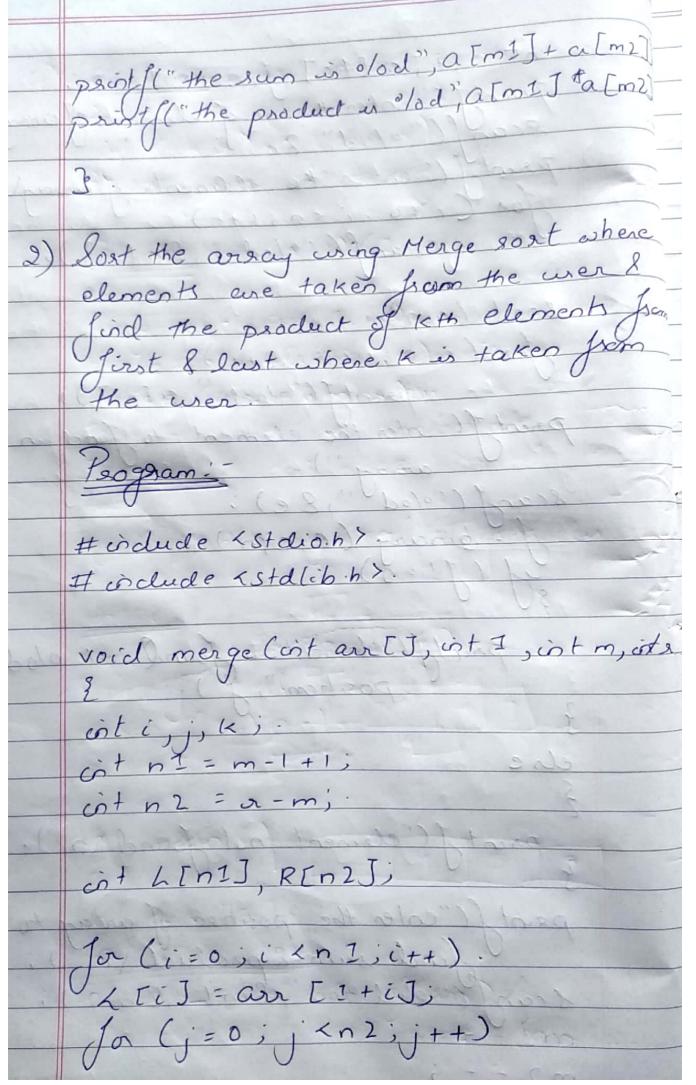
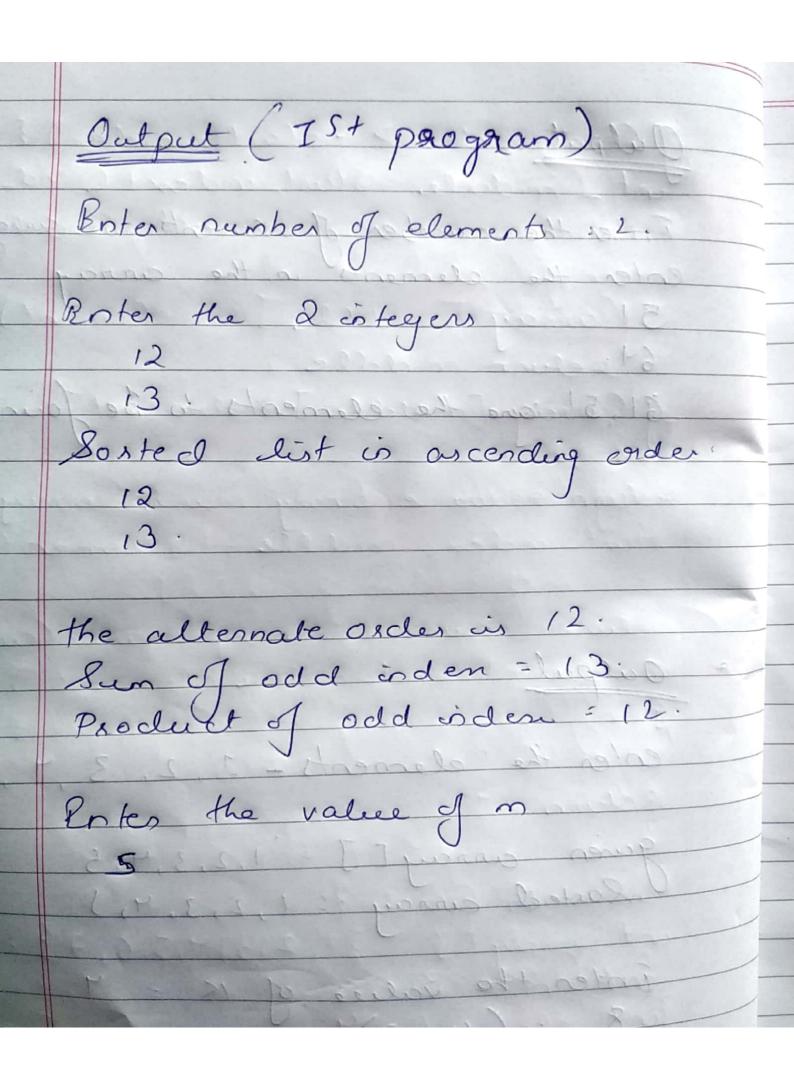
Assignment - 6 K.N.V.S.S.NITIN AP19110010484 CSE-F. 1) Take elements from the user and sort then in the descending order 8 do the i) Use binary search find the element & the location is the array where the element is asked from user. is) Ask the user to print any two locations I find their sum & the product I taken from the user in the sorted array Program: # include Kstolio. h> void sont (int a [], int n) inti, j, temp; Jor Ci=Osiensi++) Jos (j=i+1; j(n;j++) if (ali] (aljJ) temp = a [i]; a [i] = a [j]; a [j] = temp;



int n, i, a [40], , e) Print ("enter the no of elements of curray"); 8 carf ("o/od", 2n); printf ("enter the elements of array (") scanf ("olod ", &a[i]) sort (a,n); Jon (i=0; ikn jett) printf("olod ,aliJ) print I center the element to Jind as printf ('element is found at old else. 2 print J ("element not Jourd (n"); print f ("enter the position of away to find sum & product \o"); scarf ("olod olod", &m 1, 2 m 2);



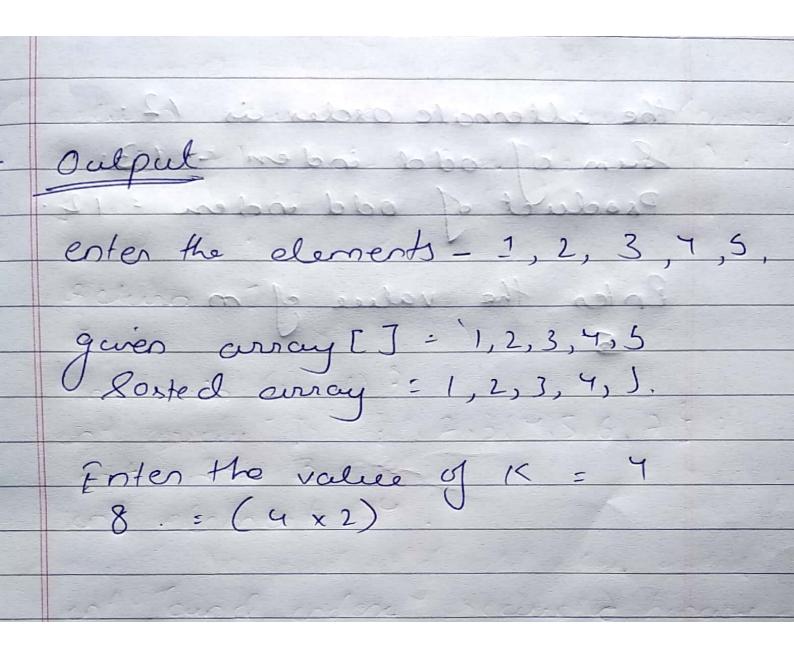


```
RIJ = are [m+1+j];
while (ixn1 82 jxn2).
if (L[i] <= R[j])
 arr [K] = L[i];
i++j
else
 an [K] = R[j]
 K++j
 while (ikn1)
 arr[K] = R[j]
```

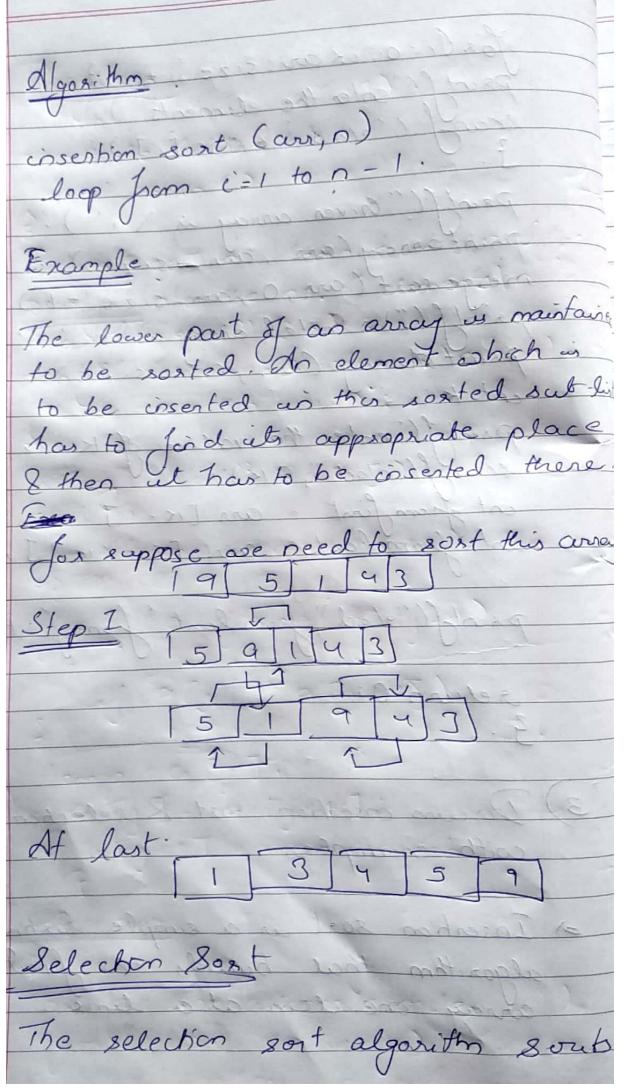
void mergesont (intart I , int I) if (1(a) cot m = 1 + (2-1)/2; mergesort (arr, I, m); merge sout (ari, m+1, a); merge (arr, m, a); void print array (Int A[], int size) for (i=0; i < size; i+)prints ("olod", A[i]); ist are [5] ont arr_size = size of (arr)/ size of (arr [o]);

for (i=0; ixarr-size ; i++)? print ("enter the elements"); scarf (00/00; & ara [i]); printarray (arr, arr, = size)

merge sort (arr, 0, arr-size -1) printf ("In Sosted array is In");
print dray Carr, arr_size);
int ki prints ("enter the value of K"); scanf ("olod", 2K); ist from first = corr [K-1]; ist from last = corr [5-(K)]; prints ("olod", from last from first)



Discuss insertion sost & selection 80xt coith examples
Tosertion sort is a simple sorting algorithm that builds the final sorted array one item at a time.

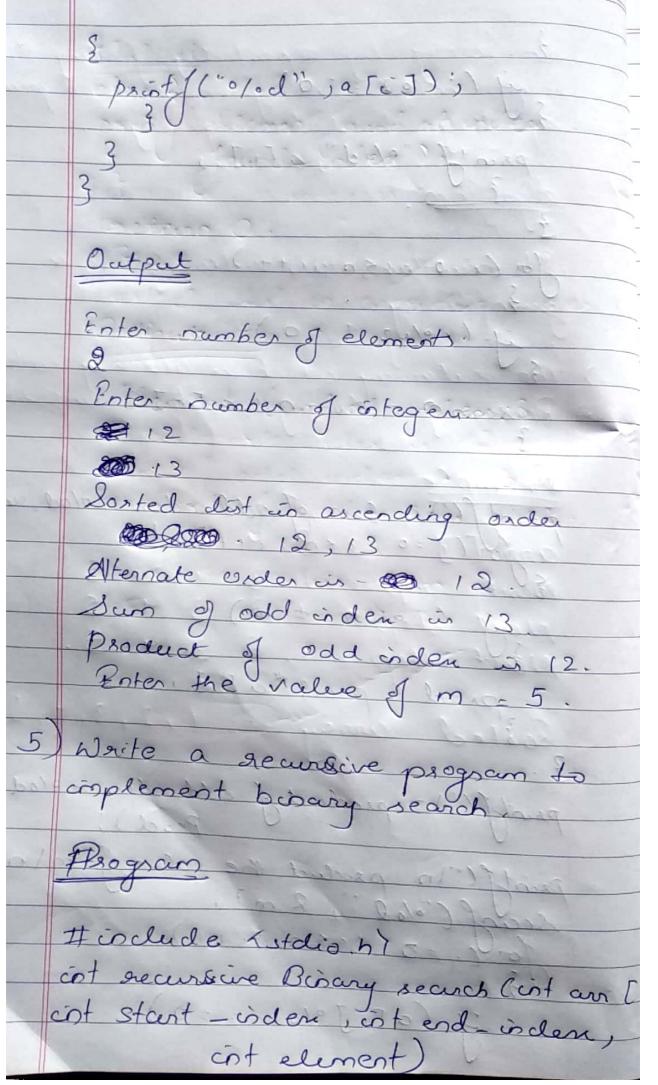


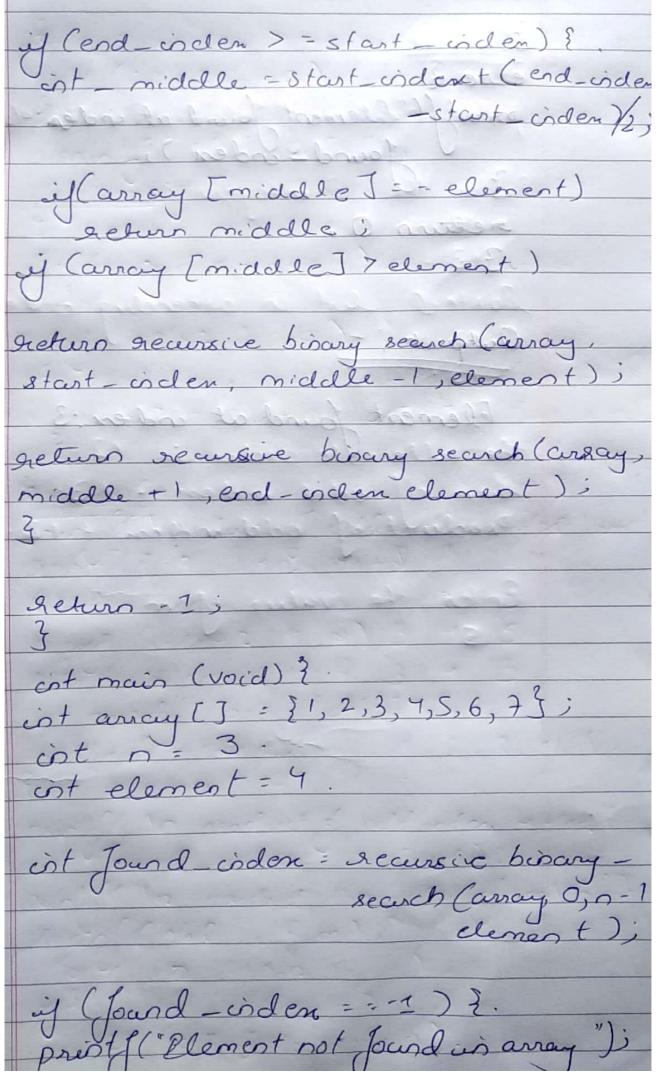
an array by sepeatedly Jinding the minimum element from unsorted part & putting it at the beginning. Algarithm. It maintains two subarrays is a guer array D' Remaining subarray which is already sorted Knample arr [] = 5 3 4 Nent step = 13 Nent step = 12343 Nent step = 1, 2 3 4 5. corrage = 1,2,3,4,5. Sosted

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4)	Pagraro!
· jace	all of the state o
1	Hindude (stdio.h).
	void mais ().
	2 mollowing
	ist a [100], n,i, temp, sum=0, psod=(m)
	print f("Enter the no of elements \n");
	scenf ("olod", ln)
	print ("Boter old integers \n", n);
March	Los Ci=0: denict +) jeden soll
400	December sharm at he &
	8 conf (°0/0d", 8 a [i]);
	3
	for (i=0; ixn-1; i++).
	03 31 700 P 8 133 = T 7 000
20	Jo Gj = 0; g < n - i - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
	Eg P & B I S S S S S S S S S S S S S S S S S S
	E if (a[i] > a [i+1])
	= if (a[j] > a[j+1])
. 20	temp = a Ej Jim
125	temp = a Ej J; a Ej + 1 J; a Ej + 1 J = + emp; 3
900	a fit I = temp
	3
	3
ALL S	3
	print ("The alternate 1 21).
	print f("The autennate order in"); Jon (i=0; i < n ; i + t)
	()
	1

ij (10/02 == =0) print [("olod", a [i]); ((10 Sum of odd inden is olod, sumo) prod = prod # a [i] proff ("In product of odd inden is sood")

Prod); of (a [i] 0/0 m = = 0).





Element Jourd at inder olada