A. J. C. L. J. L. J. L. J. L.

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# include ziosmeanes A Committee of the same of the same voing namespace std; int \*ar = NULL; ment to the distinguish of the int n=0; void create may (s; Jord Tall Island void display Amay(); 11 11 11 11 11 11 11 11 11 11 11 11 void insert Element (); void delete Element!); thy . I digital void searchElement(); void largesmall! void contamay(); roid swap (int \*xp, int \* xp)} int temp = xxp; \* xp = \*yp; \* yp = temp; int main() } int flag; conter "To start enter 1' reendl; ainss flag; while (flog) }

cout ze " 1. create au array "zeeudl; cout << " 2. Disploy element 9t 9 siven por mi "3. Display the among \n"; cout ce "4. De lettélement from given pos. In cout it is, search an element";

cout ec "6. Display the larter and smallest elent". cout L < 17. sort the armay \h"; cout ex "Press 0 to exit "xend"; cin>> flag;

```
switch(flag) &
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The state of the s
                                                                                                                              case 0:
                                                                                                                                                                                                                                                                                                                              break;
                                                                                                                                                                                                                                                                                                                                 The state of the s
                                                                                                                                     case 1:
                                                                                                                                                                           creak; Array();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Case 2:
                                                                                                                                                                                       display-trong ();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 Chukudh, . . . In
                                                                                                                                                Case 3:
                                                                                                                                                                                      iuser+ Element ();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     : Der gerig der
                                                                                                                                                                                               preak;
                                                                                                                                                                                                                                                                                  The terms of the state of the s
                                                                                                                                                                        delite Elemt ();
                                                                                                                                                                                   preak;
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                                                                                                                                                                                                searchfilm+(1)
                                                                                                                                                                                                     forcak;
                                                                                                                                                                    carb:
                                                                                                                                                                                                        Largesmall ();
                                                                                                                                                                                                                    break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                 The Children of the Color of th
                                                                                                                                                                                          Case 7:
                                                                                                                                                                                                                                   sort Array ();
                                                                                                                                                                                                                                                boreak;
                                                                                                seturn 0;
                                                                                                                                                                                                                 void create Array () {
                                                           cout et " Enter size of array";
                                                              CHUSSM;
                                                     or=(in+*) malloc (n*sizeof(in+));
                                                    couter " Enter Array Bluments: ";
for ( Int i = 0 ; ixn; i+t) i
                                                                                                                                              cinss artij;
```

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```
Yoid
      display Array () }
        tor (Jut i=0; i < n; i++) {
               cource artijee";
        contecendl;
void inscrtélement () {
       er = (int x) malloc (or, size of (int) x (m+1));
        Lit pos, val;
        confecu Enter position to enter: ";
         cin>> pos,
         cout L'enfer voille: ";
          consoval;
          for (int i= n-1; i>= pos-1; i--)
                 or[i+1] = ar[i];
           ar[pos-1] = val;
 void delette Element 1) ?
        cout << " Enter position to delete: ";
               pronto cost c c" deletion not possible";
         cins pos;
         if ( pos>= u +1)
              tor (int i= bos-1; i < n-1; i++)
         else ?
                     ar[i] = 9r[i+1];
```

```
search Elent () }
    void
                                              19 / 9.14 his six account
          int flag =0;
                                   Contract to the first of the same of the
          couter "Enter eliment!";
           ciu>>n;
          for (int i=0; i zu; i+t)?
               if ( ar[i] == n) }
                   coutes" found at pos: " <= i exendly
                                                      1 (11. 17) And
                    flag ++;
                            a) demine to a state of this of the
          if (flag = =0) }
                cout << "Element not found." ¿cend!
                                      Justice That I by I for
                                          MI TELLINE
void cargesmall() }
                                               Lav. Him dy
        int max = arr [0], i;
                                  the property of the second of the second
       for (i=0; i < n; i++) {
                                       There is the contract
             if (max carti])
                                     it will be the
max = arti];
                                   Altitude Family
(1... 1.7. 74.
        int min = ar[0];
                                      1 - 11 - 1
         for (i =0; i < n; i ++) }
                                      ( Sie - 1 5 A / 1/1
               if (min > arti])
                    min = on[1];
conte "largest Element: "exmax exempl;
contex" smallest Elevet: resmin exempl;
                             - void sorthmay () f
        int i, i;
                                       for (i=0; i < u-1; i++) {
              for ( )=0; 3 < u-1=1; )++1 {
                    1f ( arti] > arti+1]); corti+1]);
```

```
-MIEngine-Pid-rkqrdjs2.ckn' '--dbgExe=C:\msys64\mingw64\bin\gdb.exe' '--interpreter=mi'
To start enter 1.
1. Create an array
5. Search an elemment
6. Display the largest and smallest elements
7. Sort the array
Press 0 to exit
Enter Size of array: 5
Enter Array Elements: 2 3 4 9 1
1. Create an array
2. Display the array
3. Insert an element at a given position
4. Delete an element from a given position
Search an elemment
6. Display the largest and smallest elements
7. Sort the array
Press 0 to exit
Largest element : 9
Smallest element: 1
1. Create an array
2. Display the array
3. Insert an element at a given position
4. Delete an element from a given position
Search an elemment
6. Display the largest and smallest elements
7. Sort the array
Press 0 to exit
23491
1. Create an array
2. Display the array
3. Insert an element at a given position
4. Delete an element from a given position
5. Search an elemment
6. Display the largest and smallest elements
7. Sort the array
Press 0 to exit
```

De Hinducke ziosorem. Using namupace std; void greatest (int ka, but kb) } the state of the s if (a>b) } a+= b; b = q-b; Cold to the first of the cold to the cold int main() f int n; couter 10. y elements: "; int \*9 = (int \*) malloc (n \*size of (int)); cost LC "Enter elements: " for Lint i=0; i < n; itt) ciuss av [i]; int m1, m2; The state of the state of the cost cc'enter two elements"; Marie Carrier Carrier ciu>>m1>>m2; int flag1, flag2; torlint i=0;12n;itt){ if (ari] == m1) · (1) ( ) ( ) ( ) ( ) ( ) ( ) Hag1=Ti iflow[i] == m2) All I was a patrice of the flog 2 = 1; Hills char The second of the first of the com/ greatest ( tag 1, flag 2); The second of th int-count =0; for (iut i= flag 1; i <= flag 2; 1++). { cout cz ati] <2"; 1.1 () () () () () () () () () () - The state of the cout ce "In No of elements = " Excount) count ++; return 0; illimite in the state of the state of

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```
-MIEngine-Pid-5mstfgva.guf' '--dbgExe=C:\msys64
Enter No. Of elements: 5
Enter elements: 1 9 4 5 2
Enter two elements: 9 5
9 4 5
No of Elements = 3
```

SCATILLITCI OSOLE LITELIETIIC TIL OVALAHZMACAC

PS T:\C++\CPP\3rd SEM\DSA LAB\LAB\_3>

```
#include <iostream>
using namespace stol;
int main() &
  int u,i,j, n;
  coutexx "Enter of 3e of omry:""
  int *A = (int*) malloc( nxsize of Lint));
  cout << " Buter element of orray",
 for (i=0; i<1)
 for (i=0; izu; i++) f
                  La the man has been
      for (j=i+1;j<n;j++)
           It(ACIJ < ACjJ) }

\chi = AEiJ;

AEiJ = AEiJ;

AEiJ = M;

     cout << " second largest number: " << A [1];
   cortec" M second smallest number: " L< A[n-2] ecendly
  returno;
          A HALL TILL
        fred and constitution of first
          11.111. 11.1.
```

```
-MIEngine-Pid-4e0vv2wf.0ix' '--dbgExe=C:\msvs64\mingw64\
Enter size of array: 5
Enter elements of array: 18304
Second largest number : 4
Second smallest number : 1
PS T:\C++\CPP\3rd SEM\DSA LAB\LAB 3>
```

```
A TITLE TO SEE THE SECOND SECO
#include ciostreams
                                                                                                                           11 1 27 1 1 2 1 1 1 1 1 1 1
   voing naunespace stol;
   int main() f
                  int n;
                    cout cc "Enter no. of Elements: ";
                   int *am = (int *) malloc (stacof (int) *n);
                     int menun = (inta) malloc (size of (int) xn);
                     int +odd = (inf +) malloc (size of (int) * n);
                      int evnent = 0, oddont = 0,1;
                       cout ze " input numbers in the array:";
                      for(i=0;izn;1++)
                                           cius>arr [i];
                        for (i=0; i < u; i++) }
                                             If (am [i] %2 ==0)
                                                              even [evacut ++] = arr[i];
                                                               odd [oddunt ++] = arr[i];
                                                int j=0;
                   for (j=0, i =0; i zernant; j++, i++)
                                                 arr[j] = even[i];
                     for (i=0 , i < odd cut; j++, i++)
                                                      am [j] = odd[i];
                       tor li=0; i zu; i'tt)

Lout zz am[i'] zz ";
```

nehm 0;

```
Enter No. of Elements: 10
Input numbers in the array: 1 2 3 4 5 6 7 8 9 10
2 4 6 8 10 1 3 5 7 9
PS T:\C++\CPP\3rd SEM\DSA LAB\LAB 3>
```

-MIEngine-Pid-v1lsmmib.e3h' '--dbgExe=C:\msvs64\mingw64\l