```
using namespace std;
void ingresar_numeros(int arreglo[],int tam);
void mostrar_numeros(int arreglo[],int tam);
void append(int arreglo[],int tam, int opcion);
void clear_num(int arreglo[], int tam);
void extend(int arreglo[], int tam);
void count_num(int arreglo[], int tam, int numero, int contador);
void index(int arreglo[], int tam);
void insert_num(int arreglo[], int tam, int opcion);
void pop(int arreglo[], int tam);
void remove_num(int arreglo[], int tam);
void reverse_num(int arreglo[], int tam, int n, int i);
void sort_num(int arreglo[], int tam, int i, int j, int aux);
```

```
initch (a)(
    case l:
    system("cls");
    costco "OrCION APPEND: Agrega un elemento al final de la lista"
contco "OrCION APPEND: Agrega un elemento al final de la lista"
contro "nancio (nancio (nancio));
    append(nan, IAH, opcion);
    system("cla");
    return main();
    hemal;

       return wain();
break;
case 2;
system("cls");
cosets: "ORCION (LSAN: Yacia todos los elementos de la lista"(cendl;
impresa museros(num,TAN);
asstra_museros(num,TAN);
clen_mus(num,TAN);
system("cls");
return wain();
         break;
case 3:
system("cis");
coutce "OPCION ENTEND: Une una lista a otra"<<endl;
extend nnn,[ATN];
system("cis");
return main();
      return #ain();
break;
case ;
system("cis");
coutc "ObcTON COUNT: Cuenta el numero de veces que aparece un valor"
coutc mainum, Te4, numero,contador);
system("cis");
ecturn #ain();
hossi;
```

```
cout<<'ingrese los valores de la SEGUNDA LISTA: \n";
for(int i=0;i<5;i++){
    cout<''.'Ingrese el numero "<<i+!<<": "<<endl;
    cin>:8(i);
   }
cout<<""<endl;
cout</" Presione cualquier tecla para regresar al menu de inicio"</endl;
getch();
```

```
345  void reverse_num(int arreglo[], int tam,int n,int i){

346  int a[50],b[50];

347  cout<<"" <cendl;

348  for(i-0;i<s;i++)

349  cout<<"ingress el numero "<<i+1<<": "<<endl;

350  cin>a[1];

351  }

501  for(i-0;i<s;i++)

352  cout<<"" (la);i<s;i+)

353  for(i-0;i<s;i+)

354  cout<<"" (la);i<s;i+)

355  for(i-0;i<s;i+)

356  cout<<"" <chil];

357  cout<<"" <cendl;

358  cout<<"" <cendl;

359  cout<<"" <cendl;

359  cout<<"" <cendl;

360  cout<<" >cout<<" >cendl;

361  cout<<" >cout<<" >cendl;

362  cout<< " <cendl;

363  cout<< " <cendl;

364  cout<< " <cendl;

365  cout<< " <cendl;

366  cout<< " <cendl;

367  cout<< " <cendl;

368  cout<< " <cendl;

369  cout<< " <cendl;

360  cout<< " <cendl;

361  cout<< " <cendl;

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365  cout<< " <cendl;

365  cout<< " <cendl;

367  cout<< " <cendl;

368  cout<< " <cendl;

368  cout<< " <cendl;

360  cout<< " <cendl;

370  cout<< " <cendl;

370
```

Start to review: 21:02 pm End to review: 21:16 pm

The program has the objective of making 10 basic methods of ordering numeric values in arrays, the understanding of the previously written code was complicated because although I was able to guide myself by the name of some functions (they are badly named anyway), There are several variables with names that I don't know what they do at first glance. Various methodical and specific processes are performed on each function and it is difficult to understand if the variables involved have generic names that do not indicate anything.

The program is executed and shows a menu with a switch which requests a number, at this point the program directly stops executing, marking an error if an alphabetic or special character is entered (the values entered in the menu are not validated). In the same way, when accessing the desired option, if a non-numeric value is entered in the array, the program directly places the value of 0 (the values entered in any option are not validated). It has many errors and several principles of reusability and clean code are not met.