

Write a program to delete data from first position of an array.

include < iostream >

```
int main () {  
    int arr[100], size, i;  
  
    printf (" Enters the size of array ");  
    scanf ("% d", &size );  
  
    for ( i=0 ; i<size ; i++ ) {  
        cout << " Enter " <i>nth element " ;  
        scanf (" %d " , &arr[i]);  
    }  
  
    if ( size <= 0 ) {  
        printf (" Array is Empty . \n " );  
    }  
    else {  
        for ( i=0 ; i<size ; i++ ) {  
            printf (" %d " , arr[i]);  
        }  
    }  
}
```

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```
for ( i=0 ; i< size-1 ; i++ ) {  
    a[i] = a[i+1];  
}  
  
size--;  
  
printf( " After deletion\n" );  
  
for ( i=0 ; i< size ; i++ ) {  
    printf( "%d" , a[i] );  
}  
  
}  
  
return 0;
```

Write a program to delete data from the last position of an array.

```
#include <stdio.h>
```

```
Void main()
{
    int arr[100], size, i;
    printf("Enter size of element");
    scanf("%d", &size);
    for(i=0; i<size; i++)
    {
        scanf("%d", &arr[i]);
    }
    if(size <= 0)
    {
        printf("Array is empty");
    }
    else
    {
        printf("Before deletion");
        for(i=0; i<size; i++)
        {
            printf("%d", arr[i]);
        }
    }
}
```

Exe -- ;
printf("After deletion \n");

```
for( i=0 ; i<20 ; i++ ) {  
    printf(" %d ", arr[i]);  
}
```

{

{

Write a program for traversing an array elements.

include <stdio.h>

void main () {
 int arr[100], size, i;

printf("Enter size of array");
 scanf(" %d ", &size);

// Traversing one by one element .
 printf("Enter elements");
 for(i=0 ; i<size ; i++) {
 scanf(" %d ", &arr[i]);
 }

// Displaying elements

for(i=0 ; i<size ; ++) {
 printf(" %d ", arr[i]);
}

Write a program to find out the key element from array.

```
# include <stdio.h>
```

```
void main () {
```

```
    int arr[100], size, i, key;
```

```
    printf ("Enter size of array");  
    scanf ("%d", &size);
```

```
    printf ("Enter the key element");  
    scanf ("%d", &key);
```

```
    printf ("Enter the array elements");
```

```
    for (i=0; i<size; i++) {
```

```
        scanf ("%d", &arr[i]);
```

```
}
```

Teacher's Signature.....

// code for searching key element .

```
for( i=0 ; i<size ; i++ ) {  
    if( arr[i] == key) {  
        printf(" %d found at index %d ",  
               key, i );  
        break;  
    }  
}
```

```
else if( i == size-1) {  
    printf(" %d not found ", key);  
}  
}
```

{

Write a program to sort an array elements in ascending order.

```
# include<stdio.h>
```

```
void main() {
```

```
    int arr[100], size, i, j;
```

```
    printf("Enter the size of array");  
    scanf("%d", &size);
```

```
    printf("Enter the elements of array");
```

```
    for(i=0; i<size; i++) {
```

```
        scanf("%d", &arr[i]);
```

```
}
```

/ sorting algorithm code implementation.

```
for("Before swap \n");
```

```
for(i=0; i<size; i++) {
```

```
    printf("%d", arr[i]);
```

```
}
```

Teacher's Signature.....

```
for( i=0 ; i<size-1 ; i++ ) {  
    for( j=i ; j<size-1 ; j++ ) {  
        if( arr[i] > arr[j] ) {  
            arr[i] += arr[j];  
            arr[j] = arr[i]-arr[j];  
            arr[i] = arr[i]-arr[j];  
        }  
    }  
}
```

```
printf(" The sorted array \n");
```

```
for( i=0 ; i<size ; i++ ) {  
    printf(" %d ", arr[i]);  
}
```

```
return 0;
```

```
}
```

Write a program to sort an array elements in descending order.

```
# include < stdio.h >
```

```
void main () {
```

```
    int arr[100] , size , i , j ;
```

```
    printf (" Enter the size of array " );  
    scanf (" %d " , & size );
```

```
    printf (" Enter the elements of array " );
```

```
    for ( i = 0 ; i < size ; i ++ ) {
```

```
        scanf (" %d " , & arr[i] );
```

```
}
```

```
// sorting algorithm code implementation .
```

```
    printf (" Before sorting " );
```

```
    for ( i = 0 ; i < size ; i ++ ) {
```

```
        printf (" %d " , arr[i] );
```

```
}
```

Teacher's Signature.....

```
for( i=0 ; i<size-2 ; i++ ) {  
    for( j=i+1 ; j<size-1 ; j++ ) {  
        if( arr[i] < arr[j] ) {  
            arr[i] += arr[j];  
            arr[j] = arr[i] - arr[j];  
            arr[i] -= arr[j];  
        }  
    }  
}
```

```
printf(" sorted array is \n");
```

```
for( i=0 ; i<size ; i++ ) {  
    printf( ".-d", arr[i] );  
}
```

```
}
```