

```
//34 Deletion of the array
/*
 * C program to delete an element from array at specified position
 */

#include <stdio.h>
#define MAX_SIZE 100

int main()
{
    int arr[MAX_SIZE];
    int i, size, pos;

    /* Input size and element in array */
    printf("Enter size of the array : ");
    scanf("%d", &size);
    printf("Enter elements in array : ");
    for(i=0; i<size; i++)
    {
        scanf("%d", &arr[i]);
    }

    /* Input element position to delete */
    printf("Enter the element position to delete : ");
    scanf("%d", &pos);

    /* Invalid delete position */
    if(pos < 0 || pos > size)
    {
        printf("Invalid position! Please enter position between 1 to %d", size);
    }
    else
    {
        /* Copy next element value to current element */
        for(i=pos-1; i<size-1; i++)
        {
            arr[i] = arr[i + 1];
        }

        /* Decrement array size by 1 */
        size--;

        /* Print array after deletion */
        printf("\nElements of array after delete are : ");
        for(i=0; i<size; i++)
        {
            printf("%d\t", arr[i]);
        }
    }

    return 0;
}
```

Output

```
Enter size of the array : 5
Enter elements in array : 10 20 30 40 50
Enter the element position to delete : 2
```

```
Elements of array after delete are : 10      30      40      50
```