// C Program to Reverse an Array by Printing it from The Last Element to the First Element

```
#include <stdio.h>
#define N 1000

int main() {
   int arr[N];
   Int i;
   int n;
   // Inputting the size of the array
   printf("Enter the size of the array: ");
   scanf("%d", &n);

   // Inputting the array
   printf("Enter an array: ");
   for (i = 0; i< n; i++){
      scanf("%d", &arr[i]);
   }

   // Printing the reverse of the array
   printf("Reversed array: ");
   for (i = n-1; i>=0; i--){
      printf("%d ", arr[i]);
   }

   return 0;
}
```

**Problem Statement:** Given an array of **N integers**, write a program to add an array element at the beginning, end, and at a specific position.

```
#include <stdio.h>
   int main()
{
    int n=8;
    int arr[9]={10,9,14,8,20,48,16,9};
    int value=40;
    printf("Before inserting the value at beginning:");
     for(int i=0;i<n;i++)
    {
        printf(" %d ",arr[i]);
```

```
    }
     printf(" /n ");
     for(int i=n-1;i>=0;i--)
    {
        arr[i+1]=arr[i];
    }
    arr[0]=value;
}

    Printf("After inserting the value at beginning:");
    for(int i=0;i<=n;i++)
    {
        printf(" %d ",arr[i]);
    }
    printf(" \n");
    return 0;
}
```