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//C program to insert a number at a given location in an array
#include<stdio.h>
void main()
{
    int i,n,a[10],pos,val;
    printf("\n Enter number of elements: ");
    scanf("%d",&n);
    printf("Enter the elements:\n",n);
    for(i=0;i<n;i++)
        scanf("%d",&a[i]);
    printf("Enter the location at which to insert an element: ");
    scanf("%d",&pos);
    printf("Enter the value to insert: ");
    scanf("%d",&val);
    for(i=n;i>=pos;i--)
    {
        a[i+1]=a[i];
    }
    a[pos]=val;
    printf("Resultant array:\n");
    for(i=0;i<=n;i++)
        printf("%d\t",a[i]);
}
```