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//C program to insert an array that is already sorted in ascending order.
#include<stdio.h>
void main()
{
    int i,j,n,a[10],num;
    printf("\n Enter the number of elements: ");
    scanf("%d",&n);
    printf("Enter the elements in ascending order:\n");
    for(i=0;i<n;i++)
        scanf("%d",&a[i]);
    printf("Enter the number you want to insert:");
    scanf("%d",&num);
    for(i=0;i<n;i++)
    {
        if(a[i]>num)
        {
            for(j=n-1;j>=i;j--)
                a[j+1]=a[j];
            a[i]=num;
            break;
        }
    }
    printf("Resultant array:\n");
    for(i=0;i<=n;i++)
        printf("%d\t",a[i]);
}

```