/*array insertion*/

```
#include<stdio.h>
int main()
{
        int n,i,key,location;
        printf("enter the value of n\n");
        scanf("%d",&n);
        int a[n];
        printf("enter the values of array\n");
        for(i=0;i<n;i++)
        {
                scanf("%d",&a[i]);
        }
        printf("your entered array elements are\n");
        for(i=0;i<n;i++)
        {
                printf("%d\n",a[i]);
        }
        printf("enter the location of new element to be inserted\n");
        scanf("%d",&location);
        printf("enter the value of new element to be inserted\n");
        scanf("%d",&key);
        n++;
        for(i=n-1;i>=location;i--)
        {
                a[i]=a[i-1];
        }
        a[location]=key;
        printf("after inserrtion the array is\n");
        for(i=0;i<n;i++)
        {
```

```
printf("%d\n",a[i]);
}
return 0;
}
```

```
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The values of array

The values of array

The values of array elements are

The values of new element to be inserted

The value of n
```