/*array searching(linear search)*/

```
#include<stdio.h>
int main()
{
        int n,i,found,location,key;
        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("enter your key(search)element\n");
        scanf("%d",&key);
        for(i=0;i<n;i++)
        {
                if(a[i]==key)
                {
                        found=1;
                        location=i;
                        break;
                }
                else
                {
                        found=0;
                }
        }
        if(found==0)
```

```
printf("SEARCH UNSUCCESSFUL:element not found\n");
else
printf("SEARCH SUCCESSFUL:%d is present at place %d",key,(location+1));
return 0;
```

