

*****Write a 'C' Program to Search a particular data from the given Array of numbers using: Linear Search Method.*****

```
*****#include <stdio.h>
```

```
int linear_search_function(int a[], int n, int key)
```

```
{
    for (long i = 0 ; i < n ; i++ )
    {
        if (a[i] == key)
            return i;
    }
    return -1;
}
```

```
int main()
```

```
{
    int arr[100], key, k, n, key_position;
    printf("Enter number of elements in the array\n");
    scanf("%d", &n);
    printf("Enter %d integer(s)\n", n);
    for (k= 0; k < n; k++)
        scanf("%d", &arr[k]);
    printf("Enter a number you would like to search in the array\n");
    scanf("%d", &key);
    key_position = linear_search_function(arr, n, key);
    if (key_position == -1)
        printf("%d isn't present in the array.\n", key);
    else
        printf("%d is present at location %d.\n", key, key_position+1);
    return 0;
}
```

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    for (long i = 0 ; i < n ; i++ )
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    printf("Enter %d integer(s)\n", n);
    for (k= 0; k < n; k++)
        scanf("%d", &arr[k]);
    printf("Enter a number you would like to search in the array\n");
    scanf("%d", &key);
    key_position = linear_search_function(arr, n, key);
    if (key_position == -1)
        printf("%d isn't present in the array.\n", key);
    else
        printf("%d is present at location %d.\n", key, key_position+1);
    return 0;
}

```

***** Write a 'C' Program to Search a particular data from the given Array of Strings using Linear Search Method*****.

```

#include<stdio.h>
#include<string.h>
int main()
{
    char str[20][50], s1[50];
    int n, i, found=0;

    printf("Enter how many string (names): ");
    scanf("%d", &n);

    printf("Enter %d strings:\n", n);
    for(i=0; i<n; i++)
    {
        scanf("%s", str[i]);
    }

    printf("Enter a string to search: ");
    scanf("%s", s1);

    for(i=0; i<n; i++)
    {
        if(strcmp(s1, str[i]) == 0)
        {
            found=1;
            printf("Found in row-%d\n", i+1);
        }
    }
}

```

```
}  
if(found==0) printf("Not found");  
return 0;  
}
```