

```

#include <stdio.h>

int main()
{
    int i, j, sum = 0, n;
    int ar[20], tm[20];
    int disk;

    printf("Enter number of locations: ");
    scanf("%d", &n);
    printf("Enter position of head: ");
    scanf("%d", &disk);
    printf("Enter elements of disk queue:\n");
    for (i = 0; i < n; i++) {
        scanf("%d", &ar[i]);
        tm[i] = disk - ar[i];
        if (tm[i] < 0)
        {
            tm[i] = ar[i] - disk;
        }
        disk = ar[i];
        sum += tm[i];
    }

    printf("\nMovement of total cylinders: %d\n", sum);
    return 0;
}

```