
SHORTEST SEEK TIME FIRST

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Code:

```
#include<stdio.h>
#include<conio.h>
#include<math.h>
void main()
{
    int queue[100],t[100],head,seek=0,n,i,j,temp;
    float avg;
    printf("Enter the size of Queue\t");
    scanf("%d",&n);
    printf("Enter the Queue\t");
    for(i=0;i<n;i++)
    {
        scanf("%d",&queue[i]);
    }
    printf("Enter the initial head position\t");
    scanf("%d",&head);
    for(i=1;i<n;i++)
    t[i]=abs(head-queue[i]);
    for(i=0;i<n;i++)
    {
        for(j=i+1;j<n;j++)
        {
            if(t[i]>t[j])
            {
                temp=t[i];
                t[i]=t[j];
                t[j]=temp;
                temp=queue[i];
                queue[i]=queue[j];
                queue[j]=temp;
            }
        }
    }
    for(i=1;i<n-1;i++)
    {
        seek=seek+abs(head-queue[i]);
        head=queue[i];
    }
    printf("\nTotal Seek Time is%d\t",seek);
    avg=seek/(float)n;
    printf("\nAverage Seek Time is %f\t",avg);
    getch();
}
```

Output:

```
C:\Users\RAVELLA ABHINAV\OneDrive\Desktop\lab0705\disk.exe
Enter the size of Queue 8
Enter the Queue 98 183 37 122 14 124 65 67
Enter the initial head position 53

Total Seek Time is177
Average Seek Time is 22.125000
```