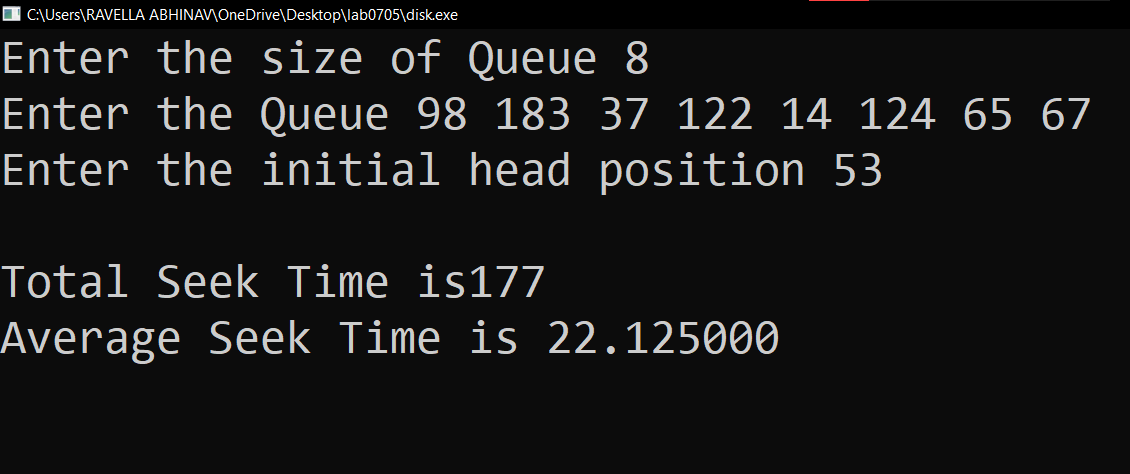
**SHORTEST SEEK TIME FIRST**

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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:**

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