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#include <stdio.h>

//#include <conio.h>

#include <math.h>

int main()
{
    int queue[100], t[100], head, seek = 0, n, i, j, temp;
    float avg;
    printf("*** SSTF Disk Scheduling Algorithm ***\n");
    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;
            }
        }
    }
}

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    }
}
}
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);
return 0;
}

```

OUTPUT:-

Enter the size of Queue 6

Enter the Queue 4 5 6 3 8 2

Enter the initial head position 3

Total Seek Time is5

Average Seek Time is 0.833333

...Program finished with exit code 0

Press ENTER to exit console.