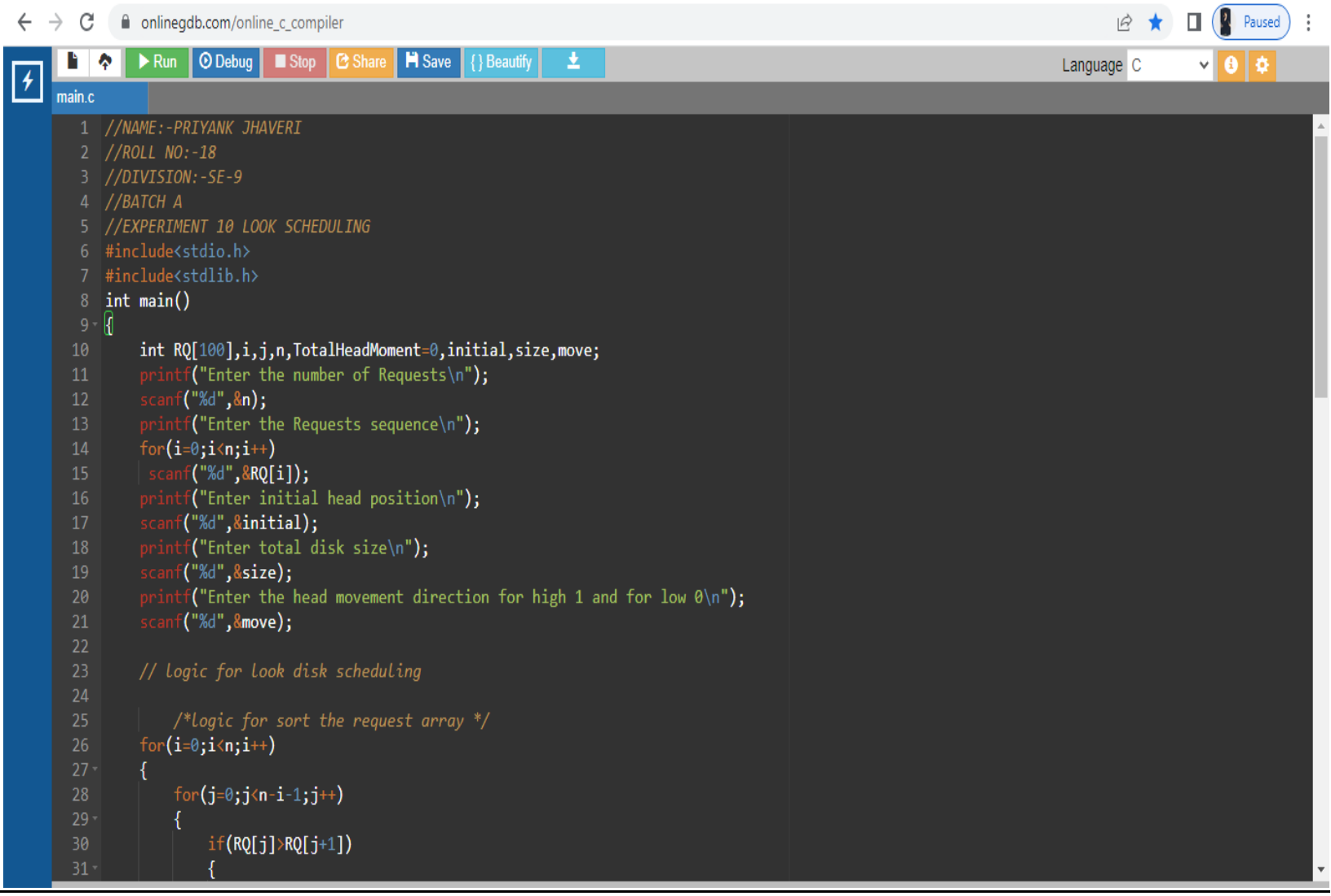
NAME:-PRIYANK JHAVERI
ROLL NO:-18
DIVISION:-SE-9
BATCH A

EXPERIMENT 10

LOOK SCHEDULING




```c
//NAME:-PRIYANK JHAVERI
//ROLL NO:-18
//DIVISION:-SE-9
//BATCH A
//EXPERIMENT 10 LOOK SCHEDULING
#include<stdio.h>
#include<stdlib.h>
int main()
{
    int RQ[100],i,j,n,TotalHeadMoment=0,initial,size,move;
    printf("Enter the number of Requests\n");
    scanf("%d",&n);
    printf("Enter the Requests sequence\n");
    for(i=0;i<n;i++)
     scanf("%d",&RQ[i]);
    printf("Enter initial head position\n");
    scanf("%d",&initial);
    printf("Enter total disk size\n");
    scanf("%d",&size);
    printf("Enter the head movement direction for high 1 and for low 0\n");
    scanf("%d",&move);

    // logic for look disk scheduling

        /*logic for sort the request array */
    for(i=0;i<n;i++)
    {
        for(j=0;j<n-i-1;j++)
        {
            if(RQ[j]>RQ[j+1])
            {
```

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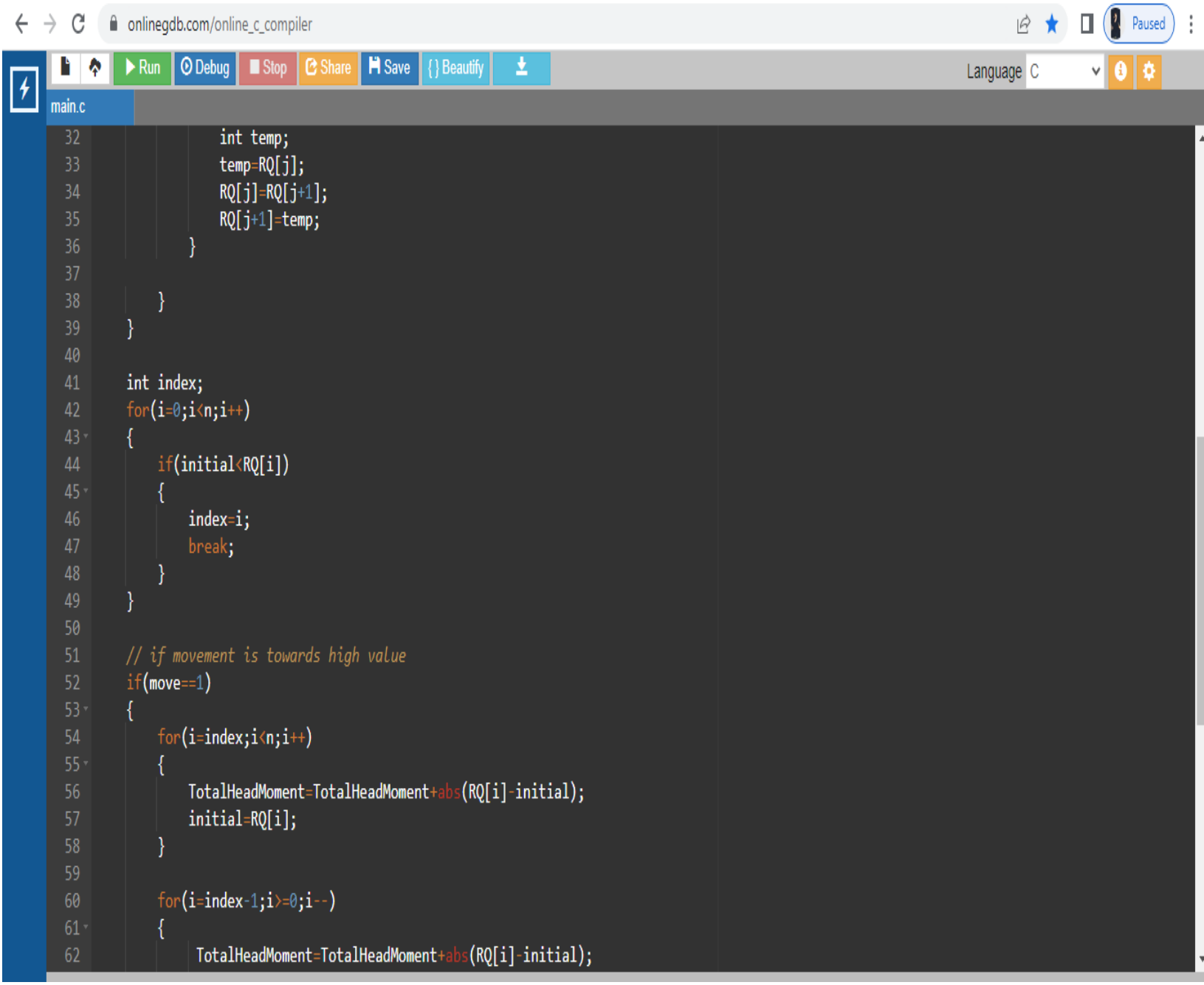
BATCH A



NAME:-PRIYANK JHAVERI
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BATCH A

```
63              initial=RQ[i];
64
65          }
66      }
67      // if movement is towards low value
68      else
69      {
70          for(i=index-1;i>=0;i--)
71          {
72              TotalHeadMoment=TotalHeadMoment+abs(RQ[i]-initial);
73              initial=RQ[i];
74          }
75
76          for(i=index;i<n;i++)
77          {
78              TotalHeadMoment=TotalHeadMoment+abs(RQ[i]-initial);
79              initial=RQ[i];
80
81          }
82      }
83
84      printf("Total head movement is %d",TotalHeadMoment);
85      return 0;
86  }
```

```
input
Enter the number of Requests
8
Enter the Requests sequence
95 180 34 119 11 123 62 64
Enter initial head position
50
Enter total disk size
200
Enter the head movement direction for high 1 and for low 0
1
Total head movement is 299

...Program finished with exit code 0
Press ENTER to exit console.
```

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ROLL NO:-18
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BATCH A

C-LOOK SCHEDULING

Run | Debug | Stop | Share | Saved | {} Beautify | Language C

main.c

```c
#include<stdio.h>
#include<stdlib.h>
int main()
{
    int RQ[100],i,j,n,TotalHeadMoment=0,initial,size,move;
    printf("Enter the number of Requests\n");
    scanf("%d",&n);
    printf("Enter the Requests sequence\n");
    for(i=0;i<n;i++)
     scanf("%d",&RQ[i]);
    printf("Enter initial head position\n");
    scanf("%d",&initial);
    printf("Enter total disk size\n");
    scanf("%d",&size);
    printf("Enter the head movement direction for high 1 and for low 0\n");
    scanf("%d",&move);

    // logic for C-look disk scheduling

        /*logic for sort the request array */
    for(i=0;i<n;i++)
    {
        for( j=0;j<n-i-1;j++)
        {
            if(RQ[j]>RQ[j+1])
            {
                int temp;
                temp=RQ[j];
                RQ[j]=RQ[j+1];
                RQ[j+1]=temp;
            }

        }
    }

    int index;
    for(i=0;i<n;i++)
```

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Run | Debug | Stop | Share | Saved | {} Beautify | Language C

main.c

```
    {
        if(initial<RQ[i])
        {
            index=i;
            break;
        }
    }

    // if movement is towards high value
    if(move==1)
    {
        for(i=index;i<n;i++)
        {
            TotalHeadMoment=TotalHeadMoment+abs(RQ[i]-initial);
            initial=RQ[i];
        }

        for( i=0;i<index;i++)
        {
            TotalHeadMoment=TotalHeadMoment+abs(RQ[i]-initial);
            initial=RQ[i];

        }
    }
    // if movement is towards low value
    else
    {
        for(i=index-1;i>=0;i--)
        {
            TotalHeadMoment=TotalHeadMoment+abs(RQ[i]-initial);
            initial=RQ[i];
        }

        for(i=n-1;i>=index;i--)
        {
            TotalHeadMoment=TotalHeadMoment+abs(RQ[i]-initial);
            initial=RQ[i];
```

```
        }
    }

    printf("Total head movement is %d",TotalHeadMoment);
    return 0;
}
```

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BATCH A

input

```
Enter the number of Requests
8
Enter the Requests sequence
95 180 34 119 11 123 62 64
Enter initial head position
50
Enter total disk size
200
Enter the head movement direction for high 1 and for low 0
1
Total head movement is 322

...Program finished with exit code 0
Press ENTER to exit console.
```