Name — Ayushi

Roll no. — 2023044

Subject — Operating System (Lab Exam)

2- Source Code :

```c
#include <stdio.h>
#include <conio.h>
int main()
{
  int i, j, sum=0, n;
  int d[20];
  int disk;
  int temp, max;
  int dloc;
  printf("Enter number of location : \t");
  scanf("%d", &n);
  printf("Enter position of head : \t");
  scanf("%d", &disk);
  printf("Enter element of disk queue :\n");
  for(i=0; i<n; i++)
  {
    scanf("%d", &d[i]);
  }
  d[n]=disk;
  n=n+1;
  for(i=0; i<n; i++){
    for(j=1; j<n; j++)
```

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```c
{
if (d[i]<d[j])
{
temp = d[i];
d[i] = d[j];
d[j] = temp;
}
}
}

max = d[n];
for (i=0; i<n; i++) {
if (disk == d[i]) { dloc =i; break; }
}
for (i=dloc; i>=0; i--)
{
printf ("%d -->", d[i]);
}
printf ("0 -->");
for (i=dloc+1; i<n; i++)
{
printf ("%d -->", d[i]);
}
```

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```
sum = disk + max;
printf ("\n movement of total Cylinder %d", sum);
    getch ();
    return 0;
}
```

C 2.c   ✕

C 2.c > ⊗ main()

```c
 6     int d[20];
 7     int disk;
 8     int temp,max;
 9     int dloc; printf("enter number of location\t");
10     scanf("%d",&n);
```

PROBLEMS OUTPUT DEBUG CONSOLE **TERMINAL**

```
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\DELL\Desktop> cd "c:\Users\DELL\Desktop\" ; if ($?) { gcc 2.c -o 2 } ; if ($?) { .\2 }
enter number of location       7
enter position of head :       24
enter elements of disk queue :
12 26 24 4 42 8 50
24 -->12 -->8 -->4 -->0 -->24-->26-->42-->50-->
movement of total cylinders 328
PS C:\Users\DELL\Desktop>
```

⊗ 0 ⚠ 0

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