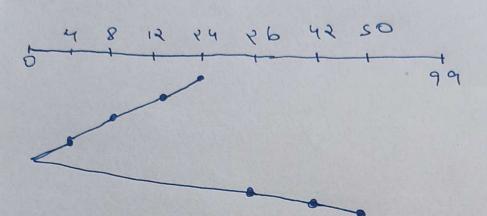
```
Name - Darshan
Course - BSC IT
Section - A
 Roll no. - Y023047
Q2.
   Source Code
#include < std90.h7
# include a stalib.h7
  ine main ()
5
    int RQ[100], i, i, n, Total Head Moment = O, initial, size;
    printf ("Enter the number of Regnests (n");
    Scant (" %d", 4n);
    printf (" Enter the Regnests segmence(n");
     for (i=0; i<n; i++)
      Scanf (" /od", & RQ[i]);
      Printf ("Enter initial head position (n");
      scanf (" % od", &initial);
      princf (" Enter total disk size (n");
      Scanf (" dod", 4 size);
     For (i= 0; icn; i++)
        for ( ;= 0; icn-1; ;++)
          if (RQ[j]>RQ[j+1])
             int temp;
              temp = RQ[;];
              RQ[j]=RQ[j+];
```

```
RQ[j+1] = temp;
    3
  1
3
 int index;
 For (i=0; i<n; i++)
     if (initial < RQ[i])
        index=i;
        break;
    3
 1
 for (i=index-1; i>=0; i--)
 2
   To Eq | Head Moment = To Eq | Head Moment + 965 (RQ[i] -
    initial);
    initial = RQ[i);
 7
Total Head Moment += 965 (RQ[i+i]-0);
 initial = 0;
 for (i = index; i(n; i++)
 8
   To Eal Headmoment += abs (RQ(i]-initial);
   initial = RQ[i];
 2
printf("Total arm move is "od", TotalHeadmonet);
return O;
```

Calculation





=> (24-12)+(12-8)+(8-4)+(4-0)+(46-0)+(42-26)+ (50-42)

3) 12+4+4+4+6+16+8

3 74

