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Ques:-2)
```c
#include <stdio.h>
int absolute Value (int);
void main()
{
    int
    queue [25], n, head position, i, j, K, seek=0,
    max range,
    difference, temp, queue1 [20], queue2 [20], temp1=0, temp2=0;
    Float average seek Time;
    printf ("Enter the maxium range of disk : ");
    scanf ("%d", & max range);
    printf ("Enter the maximum of queue request : ");
    scanf ("%d", &n);
    printf ("Enter the intial head position : ");
    scanf ("%d", head position);
    printf ("Enter the disk position to be read (queue) : ");
    for (i = 1; i <= n; i++)
    {
```

```
scanf ("%d", & temp);
if (temp > head position)
{
    queue 1 [ temp 1 ] = temp;
    temp 1 ++;
}
else
{
    queue 2 [ temp 2 ] = temp;
    temp2 ++;
}
}
difference = absolute Value ( queue [j +1] - queue [j]);
seek = seek + difference ;
printf (" Disk head moves from position %d to %d with seek
queue [j], queue [j +1], difference );
}
average seek time = seek / (Float) n;
printf (" Total seek time = %d \n")
printf (" Average seek Time = %f \n", average seek time);
}
```

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```
}
    int absoluteValue (int x)
{
    if (x > 0)
    {
        return x;
    }
    else
    {
        return x * -1;
    }
}
```

Ayush