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Q1 Answer

```
#include <stdio.h>
#include <conio.h>
#define max 25
void main()
{
    int
    frag [max], b [max], f [max], i, j, nb, nf, te
    mp;
    static int bf [max], ff [max];
    printf("\n\tMemory management
    Scheme - worst fit");
    printf("\n Enter the number of blocks:");
    blocks:);
    scanf("%d", &nb);
    printf("\nEnter the size of the
    blocks :-\n");
    for (i=1; i <= nb; i++)
    {
        printf("Block %d:", i);
        scanf("%d", &h[i]);
    }
}
```

```
printf("Enter the size of the files :  
\\n");
```

```
for (i=1; i<=n4; i++)
```

```
{
```

```
printf("file %d:", i);
```

```
scanf("%d", &t[i]);
```

```
}
```

```
for (i=1; i<=n4; i++)
```

```
{
```

```
for (j=1; j<=nb; j++)
```

```
{
```

```
if (b[j] != 1)
```

```
{
```

```
temp = b[j] - t[i];
```

```
if (temp > 0)
```

```
{
```

```
t[i] = j;
```

```
break;
```

```
}
```

```
}
```

```
}
```



```
frag[i] = temp
```

```
b[i][# [i]] = 1;
```

```
}
```

```
printf("\n file - no: \t file - size
```

```
\t block - no: \t block - size:
```

```
\t fragment");
```


```
for (i = 1; i <= n; i++)
```

```
printf("\n %d \t %d \t %d \t %d \t %d \t %d \n", i, t[i], # [i], b[# [i]], frag[i]);
```

```
getch();
```

```
}
```

Avish

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Language C

main.c

```
30 for(i=1;i<=n;i++)
31 {
32     printf("File %d:",i);
33     scanf("%d",&f[i]);
34 }
35 for(i=1;i<=n;i++)
36 {
37     for(j=1;j<=nb;j++)
38     {
39         if(bf[j]!=1)
40         {
41             temp=b[j]-f[i];
42             if(temp>=0)
43             {
44                 ff[i]=j;
45                 break;
46             }
47         }
48     }
49     frag[i]=temp;
50     bf[ff[i]]=1;
51 }
52 printf("\nFile_no:\tFile_size :\tBlock_no:\tBlock_size:\tFragement");
53 for(i=1;i<=n;i++)
54     printf("\n%d\t\t%d\t\t%d\t\t%d\t\t%d",i,f[i],ff[i],b[ff[i]],frag[i]);
55 getch();
56 }
```

input

File 2:4


File_no:	File_size :	Block_no:	Block_size:	Fragement
1	1	1	5	4
2	4	3	7	3

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

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Q2 Answer

```
#include <stdio.h>
int absoluteValue(int);
void main()
{
    int queue[25], n, headposition, i, j, k, seek = 0, Maxrange,
    difference, temp, queue1[20], queue2[20], temp1 = 0, temp2 = 0,
    float averageSeek time;
    printf("Enter the maximum range of disk: ");
    scanf("%d", &Maxrange);
    printf("Enter the number of queue requests: ");
    scanf("%d", &n);
    printf("Enter the number of queue requests: ");
    scanf("%d", &n);
    printf("Enter the initial head position: ");
    scanf("%d", &headposition);
    printf("Enter the disk positions to be read (queue): ");
    for (i = 1; i <= n; i++)
    {
        scanf("%d", &temp);
        if (temp > headposition)
        {
            queue1[temp1] = temp;
            temp1++;
        }
    }
}
```

}

else

{

queue 2 [ temp 2 ] = temp  
temp 2 ++;

}

}

for ( i = 0; i < temp 1 - 1; i ++ )

{

for ( j = i + 1; j < temp 1; j ++ )

{

if ( queue 1 [ i ] > queue 1 [ j ] )

{

temp = queue 1 [ i ];

queue 1 [ i ] = queue 1 [ j ];

queue 1 [ j ] = temp;

}

}

}



```
for (i = 0; i < temp2 - 1; ++i)
```

```
{
```

```
    for (j = i + 1; j < temp2; ++j)
```

```
        if (queue2[i] < queue2[j])
```

```
            temp = queue2[i];
```

```
            queue2[i] = queue2[j];
```

```
            queue2[j] = temp;
```

```
}
```

```
}
```

```
}
```

```
for (i = 1, j = 0; j < temp1; ++i, ++j)
```

```
{
```

```
    queue[i] = queue1[j];
```

```
}
```

```
queue[i] = maxrange;
```

```
for (i = temp1 + 2, j = 0; j < temp2; ++i, ++j)
```

```
{
```

```
    queue[i] = queue2[j];
```

```
}
```

```
queue[i] = 0;
```

```
queue[0] = head position  
for (j = 0; j < n; j++)  
{
```

    difference =

    absolute value (queue[j+1] - queue[j]);

    seek = seek + difference;

    printf ("Disk head moves from  
    position %d to %d with seek %d  
    \n",

    queue[j], queue[j+1], difference);

}

average seek time = seek / (float)n;

printf ("Total seek time = %d\n", seek);

printf ("Average seek time = %.4f\n",

average seek time);

2

int absolute value (int x)

{ if (x > 0)

{



else

{

return  $x^* - 1$ ;

}

}

~~Anisha~~

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main.c

```
71     queue[i]=queuez[j];  
72     }  
73     queue[i]=0;  
74     queue[0]=headposition;  
75     for(j=0; j<=n; j++)
```

Input

```
Enter the maximum range of Disk: 100  
Enter the number of queue requests: 7  
Enter the initial head position: 24  
Enter the disk positions to be read(queue): 12  
26  
24  
4  
42  
8  
50  
Disk head moves from position 24 to 26 with Seek 2  
Disk head moves from position 26 to 42 with Seek 16  
Disk head moves from position 42 to 50 with Seek 8  
Disk head moves from position 50 to 100 with Seek 50  
Disk head moves from position 100 to 24 with Seek 76  
Disk head moves from position 24 to 12 with Seek 12  
Disk head moves from position 12 to 8 with Seek 4  
Disk head moves from position 8 to 4 with Seek 4  
Total Seek Time= 172  
Average Seek Time= 24.571428  
  
...Program finished with exit code 0  
Press ENTER to exit console.
```

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