


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

```
}
```

```
for (i = 0; i < nfiles; i++)
```

```
{
```

```
for (j = 0; j < nblocks; j++)
```

```
{
```

```
if (block-arr[j] != 1)
```

```
{
```

```
temp = blocks[j] - files[i];
```

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

```
{
```

```
if (top < temp)
```

```
{
```

```
file-arr[i] = j
```

```
top = temp;
```

```
}
```

```
}
```

```
}
```

```
frag[i] = top;
```

```
block-arr[file-arr[i]] = 1;
```

```
top = 0;
```

```
}
```

```
}
```

```
printf("\n File Number \t File Size \t Block Number \t Block  
Size \t Fragment");
```

```
for (i = 0; i < nfiles; i++)
```

```
{
```

```
printf("\n %d \t %d \t %d \t %d \t %d, i, files[i],  
file-arr[i], blocks[file-arr[i]], frag[i]);
```

```
}
```

```
printf("\n");
```

```
return 0;
```

Kritika

Go Run Terminal Help

wrest_fit.c - c programming - Visual Studio Code

TERMINAL PROBLEMS OUTPUT DEBUG CONSOLE

Memory Management - Worst Fit

Enter the Total Number of Blocks: 3

Enter the Total Number of Files: 2

Enter the Size of the Blocks:

Block No.1: 5

Block No.2: 2

Block No.3: 7

Enter the Size of the Files:

File No.1: 1

File No.2: 4

File Number	File Size	Block Number	Block Size	Fragment
0	1	2	7	6
1	4	0	5	0

PS C:\Users\hp\c programming\operating system> |

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Date:- 27 Aug 2021

Sub Name:- Operating System

Course:- BSCIT Sec:- A

Sub code:- PBT-202

Sem:- 2

② Scan disk

```
#include <stdio.h>
```

```
#include <stdlib.h>
```

```
int main ()
```

```
{
```

```
int RQ[100], i, j, n, TotalHeadMovement=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);
```

```
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;
```

Keetika:


```

    }
}

int index;
for (i=0; i<n; i++)
{
    if (initial < RD[i])
    {
        index = i;
        break;
    }
}

for (i=index; i<n; i++)
{
    Total Head Movement = Total Head Movement + abs(RD[i] - initial);
    initial = RD[i];
}

// last movement for max size.
Total Head Movement = Total Head Movement + abs(size - RD[i-1]-1);
initial = size - 1;
for (i=index+1; i>=0; i--)
{
    Total Head Movement = Total Head Movement + abs(RD[i] - initial);
    initial = RD[i];
}

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

```

Kritika

```
isk.c -o os2_scan_disk } ; if ($?) { .\os2_scan_disk }  
Enter the number of Requests  
7  
Enter the Requests sequence  
12  
26  
24  
4  
42  
8  
50  
Enter initial head position  
24  
Enter total disk size  
100  
Total head movement is 170  
PS C:\Users\hp\c programming\operating system>
```