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Subject - Operating System Practical Exam.

Date - 27/08/21

Q1

Ans:
```
#include<stdio.h>
#include<conio.h>
#define max 25
void main()
{
 int frag[max], b[max], f[max], i, j, nb, nf, temp, highest=0
 Static int bf[max], ff[max];
 printf("\n Memory Management Scheme - Worst fit");
 printf("Enter the no. of blocks");
 scanf("%d", &nb);
 printf("Enter the no. of files");
 scanf("%d", &nf);
 printf("Enter the size of the blocks");
 for(i=1; i<=nb; i++)
 {
  printf("Block %d:", i);
  scanf("%d", &b[i]);
 }
```

```
printf("Enter the size of the files");
for(i=1;i<=nf;i++)
{
  for(j=1;j<=nb;j++)
  {
    if(bf[j]!=1)
    {
      temp = b[j]-f[i];
      if(temp>=0)
      if(highest<temp)
      {
        ff[i]=j;
        highest=temp;
      }
    }
  }
  frag[i]=highest;
  bf[ff[i]]=1;
  highest=0;
}
printf("\n File_no:\t File_size:\t Block_size\t Fragment");
for(i=1;i<=nf;i++)
printf("\n%d\t\t%d\t\t%d\t\t%d\t\t%d",i,f[i],ff[i],
bf[ff[i]],frag[i]);
getch();
}
```

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input

```
       Memory Management Scheme - Worst Fit
Enter the number of blocks:3
Enter the number of files:2

Enter the size of the blocks:-
Block 1:5
Block 2:2
Block 3:7
Enter the size of the files :-
File 1:1
File 2:4

File_no:        File_size :     Block_no:       Block_size:     Fragement
1               1               3               7               6
2               4               1               5               1

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

Type here to search ENG 01:27 27-08-2021

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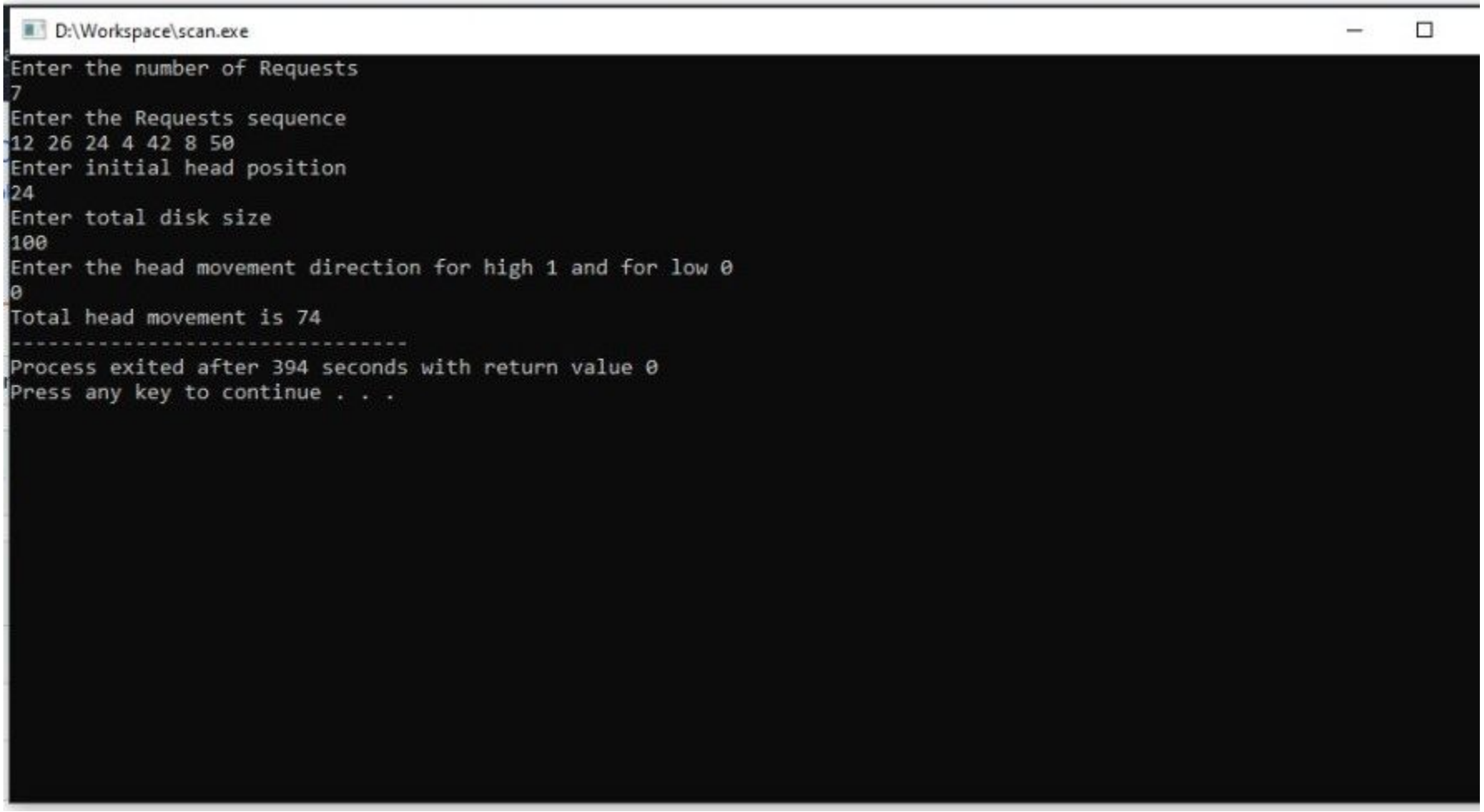
Q2.
```
#include<stdio.h>
#include<stdlib.h>
int main()
{
  int RQ[100], i, j, n, TotalHeadMoment=0, initial, size, move;
  printf("Enter the no. of requests\n");
  scanf("%d", &n);
  printf("Enter the request sequence\n");
  for(i=0; i<n; i++)
  {
    scanf("%d", &RQ[i]);
  }
  printf("Enter initial head position");
  scanf("%d", &initial);
  printf("Enter total disk size\n");
  scanf("%d", &size);
  printf("Enter the head movement direction for high 1 and
  for low 0");
  scanf("%d", &move);
```

~~for (j=0; j<n-1~~

```
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];
int index;
for (i=0; i<n; i++)
    if (initial < RQ[i])
        index = i;
        break;
if (move == 1)
    for (i = index; i<n; i++)
        Total Head Moment = Total Head Moment + abs (RQ[i] - initial = RQ[i]);
}
```

```
    initial = size-1;
    for(i=index-1; i>=0 ; i--)
    {
      TotalHeadMoment = TotalHeadMoment + abs(RQ[i] - initial);
      initial = RQ[i];
    }
  }
  else
  {
    for(i=index-1; i>=0; i--)
    {
      TotalHeadMoment = TotalHeadMoment + abs(RQ[i] - initial);
      initial = RQ[i];
    }
    TotalHeadMoment = TotalHeadMoment + abs(RQ[i+1] - 0);
    initial = 0;
    for(i=index; i<n; i++)
    {
      TotalHeadMoment = TotalHeadMoment + abs(RQ[i] - initial);
      initial = RQ[i];
    }
  }
  printf("Total head moment is %d", TotalHeadMoment);
  return 0;
}
```


D:\Workspace\scan.exe
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
Enter the head movement direction for high 1 and for low 0
0
Total head movement is 74

Process exited after 394 seconds with return value 0
Press any key to continue . . .