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Roll.No 2023067

Subject Operating System

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27/08/2021

Ques:1

Ans Code

```
1 #include <stdio.h>
2 int main()
3 {
4     printf("\n\t\t\t\tMemory Management"
5     " Scheme - Worst fit");
6     int i, j, nblocks, nfiles, temp, top = 0;
7     int frag[10], blocks[10], files[10];
8     static int block_arr[10], file_arr[10];
9     printf("\n Enter the Number"
10    " of Blocks:");
11    scanf("%d", &nblocks);
12    printf("Enter the Number"
13    " of files:");
14    scanf("%d", &nfiles);
15    printf("\n Enter the Size of the"
16    " Blocks: \n");
17    for (i = 0; i < nblocks; i++)
18    {
19        printf("Block %d: \t", i+1);
20        scanf("%d", &blocks[i]);
21    }
22    printf("Enter the Size of the"
23    " files: \n");
24    for (i = 0; i < nfiles; i++)
25    {
26        printf("file %d: \t", i+1);
27        scanf("%d", &file[i]);
28    }
```







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

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



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```
#include <stdio.h>
void main()
{
    int i, j, n, h, temp = 0, dEnd = 199, hbs, sum = 0, count = 1;
    int rq[100], sq[100];
    printf("\nEnter No. of Processes: ");
    scanf("%d", &n);

    printf("\nEnter Head value:");
    scanf("%d", &h);

    printf("\nEnter elements into Request Queue");
    for(i = 0; i < n; i++)
    {
        scanf("%d", &rq[i]);
    }
    rq[i] = h;
    rq[i+1] = 0;

    for(i = 0; i < n; i++)
    {
        for(j = 0; j < n-1; j++)
        {
            if(rq[j] > rq[j+1])
            {
                temp = rq[j];
                rq[j] = rq[j+1];
                rq[j+1] = temp;
            }
        }
    }
}
```







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```
for (i = hPos; i >= 0; i--)  
{  
    sq[count++] = sq[i];  
    count++;  
    printf("%d\t", sq[i]);  
}  
  
printf("\n Head Movements: "),  
for (i = 0; i < n; i++)  
{  
    if (sq[i] > sq[i+1])  
    {  
        sum += (sq[i] - sq[i+1]);  
    }  
    else  
    {  
        sum += (sq[i+1] - sq[i]);  
    }  
}  
printf("%d\n", sum);  
}
```

```

Enter No. of Processes: 7
Enter Head value: 24
Enter elements into Request Queue12
26
24
4
42
8
50
Scheduling
    24    12    8    4    26    42    50
Head Movements: 66
...Program finished with exit code 0
Press ENTER to exit console.
Press ENTER to exit console.
```