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Subject - Operating System

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Ques 1.

Ans - #include <stdio.h>

int main()

{

printf("\n\t\t\t\t\tMemory Management" - "Worst Fit");

int i, j, nBlocks, nfiles, temp, top = 0;

int Frag[10], Blocks[10], files[10];

Static int Block_arr[10], files_arr[10];

printf("\n Enter the total number" of Blocks!");

scanf("%d", &nBlocks);

printf("Enter the total numbers" of Files:);

scanf("%d", &nfiles);

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

for (i = 0; i < nBlocks; i++)

{

printf("Blocks No. %d: \t", i+1);

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

}

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

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

{

```
printf("File No. %d: \t", i+1);
```

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

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```
For (i = 0; i < nfiles; i++)
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```
for (j = 0; j < nblacks; j++)
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```
if (block_arr[j] != 1)
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temp = blocks[j] - files[i];
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if (temp >= 0)

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if (top < temp)

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

```
top = temp;
```

3

3

3

```
Frage [i] = top;
```

```
black_arr[file_arr[i]] = 1;
```

top = 0;

3

3

```
printf("\nFile Number\tFile Size\t" "Block Number\t  

\tBlock Size\tFragment");
```

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For (i=0; i< nfiles; i++)

[illegible]

```
91, files[i];
```

```
file_arr[i], blocks[file_arr[i]], frag[i]);
```

2

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

```
return 0;
```

3

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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

...Program finished with exit code 0

Press ENTER to exit console.