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Subject - Operating System

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Code - PB1202
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Q1.

```
#include <stdio.h>
int main()
{
printf("\n\t\t\t Memory Management''' - Worst Fit");
int i, j, n, blocks, nfiles, temp, top=0;
int frag[10], blocks[10], files[10];
static int block_arr[10], file arr[10];
printf("\n Enter the Total Number''' of Blocks:");
scanf("%d", &n blocks);
printf("Enter the Total Number''' of Files:");
scanf("%d", &n files);
printf("\n Enter the Size of the ''' Blocks:\n");
for(i=0; i<nblocks; i++)
{
printf("Block No. %d:\t", i+1);
scanf("%d", &blocks[i]);
}
printf("Enter the Size of the ''' Files:\n");
for(i=0; i<n files; i++)
{
printf("File No. %d:\t", i+1);
scanf("%d", &files[i]);
}
```

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```
for (i=0; i<nfiles; i++)
{
for (j=0; j<nblocks; j++)
{
if (block arr[j]!=1)
if(temp>=0)
{
if (top<temp)
{
file arr[i]=j;
top=temp;
}
}
}
frag[i]=top;
block arr[file arr[i]]=1;
top=0;
}
}
printf("\nFile Number\File Size\t"i"Block Number\tBlock
Size\tFragment");
for(i=0;i<nfiles;i++)
{
printf("\n%d\t\t%d\t\t%d\t\t%d\t\t%d"
,i, files[i]
file arr[i], blocks[file arr[i]], frag[i]);
}
printf("\n");
return 0;
}
```

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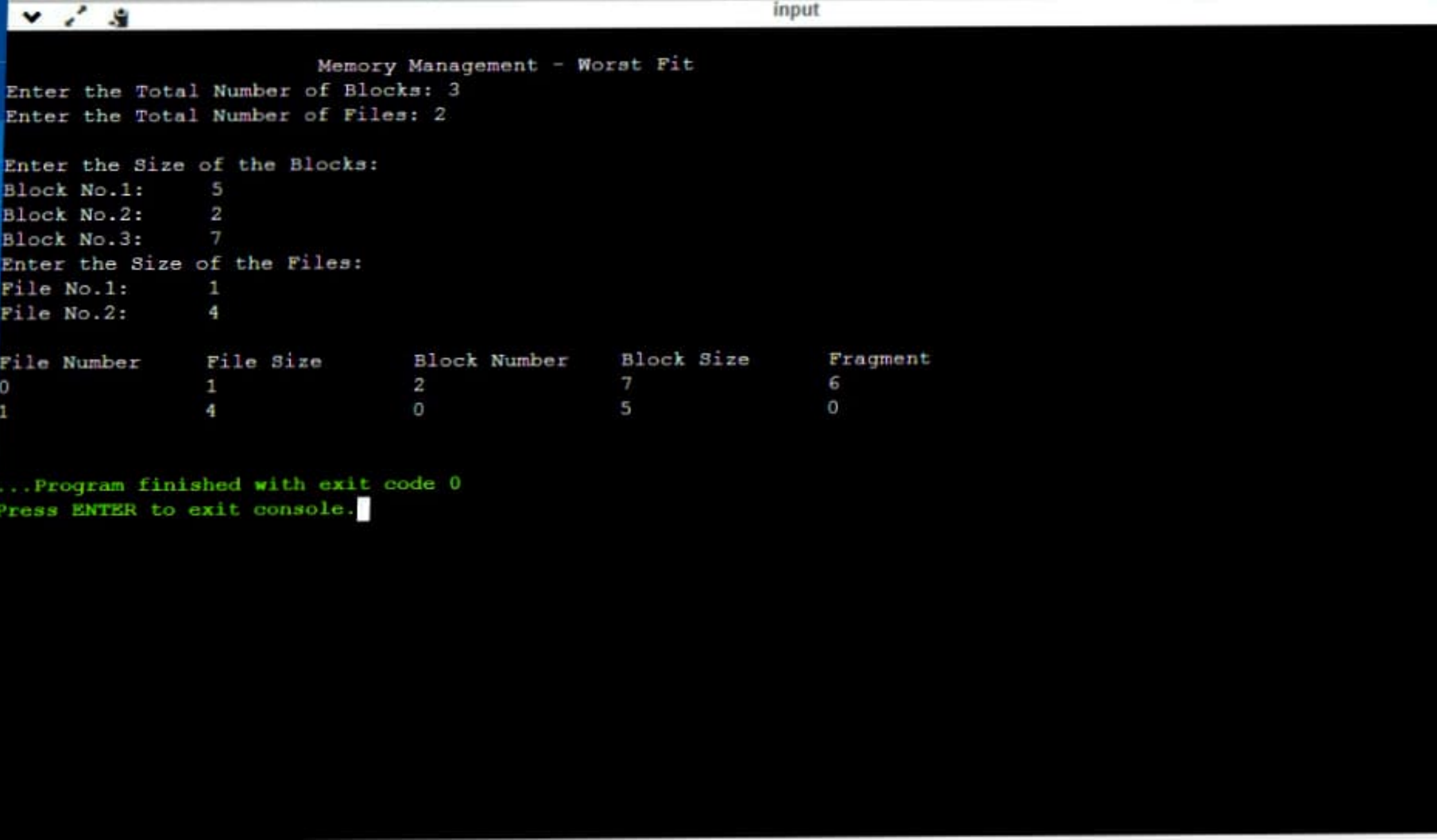
input
Memory Management - Worst Fit
Enter the Total Number of Blocks: 3
Enter the Total Number of Files: 2
Enter the Size of the Blocks:
Block No.1: 5
Block No.2: 2
Block No.3: 7
Enter the Size of the Files:
File No.1: 1
File No.2: 4
File Number File Size Block Number Block Size Fragment
0 1 2 7 6
1 4 0 5 0
...Program finished with exit code 0
Press ENTER to exit console.