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Sub - End term practice operating system
Course - BSc.IT

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```
#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], block[10], files[10];
    static int block_arr[10],
    file_arr[10];
    Printf("\nEnter the total number " of blocks:");
    scanf("%d", &nblocks);
    Printf("\nEnter the total number " of files:");
    scanf("%d", &nfiles);
    Printf("\nEnter the size of the " blocks: \n");
    for (i = 0; i < nblocks; i++)
    {
        Printf("Block No. %d: \t", i+1);
        scanf("%d", &block[i]);
    }
    Printf("\nEnter the size of " files: \n");
    for (i = 0; i < nfiles; i++)
    {
        Printf("file No. %d: \t", i+1);
        scanf("%d", &file[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 " "
    size \t fragment");
    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;
}

```


PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

Enter the Total Number of Processes: 2

Enter the Size of the Blocks:

Block No.[1]: 5

Block No.[2]: 2

Block No.[3]: 7

Enter the Size of the processes:

process No.[1]: 1

process No.[2]: 4

Process Number	Process Size	Block Number	Block Size	Fragment
0	1	1	2	1
1	4	0	5	0

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