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Subject: Operating System (End Term Practical)
TBI-202

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Ans 1

```c
#include <stdio.h>
int main()
{
    int fragments[10], block[10], files[10];
    int m, n, number-of-blocks, numbers-of-files, temp, top=0;
    static int block_arr[10], file_arr[10];
    printf("\nEnter the Total Numbers of Blocks:\t");
    scanf("%d")
    scanf("%d", &number-of-blocks);
    printf("Enter the Total Numbers of files:\t");
    scanf("%d", &numbers-of-files);
    printf("\nEnter the Size of Blocks:\n");
    for(m=0;m< number-of-blocks; m++)
    {

        printf("Block No.[%d]:\t", m+1);
        scanf("%d", &blocks[m]);

    }

    printf("Enter the Size of the files:\n");
    for(m=0; m< number-of-files; m++)
    {

        printf("File No.[%d]:\t", m+1);
        scanf("%d", &files[m]);

    }
}
```

②

```
For (m=0; m< number_of_files; m++)
{
    For (n=0; n< number_of_blocks; n++)
    {
        if (block_arr[n] != 1)
        {
            temp = blocks[n] - Files[m];
            if (temp >= 0)
            {
                if (top < temp)
                {
                    file_arr[m] = n;
                    top = temp;
                }
            }
        }
    }
    Fragments[m] = top;
    block_arr[File_arr[M]] = 1;
    top = 0;
}

Printf ("\nFile Number\t File Size\t Block Number\t Block Size\t Fragment");
For (m=0; m< number_of_files; m++).
```

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```c
{
    printf("\n%d\t\t%d\t\t%d\t\t%d\t\t%d", m, filer[m],
    ofiler_avoi[m], blocks[filer_avoi[m]], Fragment[m]);
}

printf("\n");
return 0;
}
```

```
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

```
---------------------------------------
Process exited after 40.27 seconds with return value 0
Press any key to continue . . . ▪
```