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Subject - Operating System

Aman

Ans 1)

```
#include <stdio.h>
int main()
{
    int fragments[10], blocks[10], files[10];
        int m,n, number_of_blocks, number_of_files,
            temp, top = 0;
        Static int block_arr[10], file_arr[10];
        Printf("\n Enter the Total number of Blocks: \t");
        scanf("%d", &number_of_blocks);
        Printf("Enter the Total number of files: \t");
        scanf("%d", &number_of_files);
        Printf("\n Enter the Size of the 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]);
}
    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)
```

Array

```
{
    file_arr[m] = n;
      top = temp;
   }
  }
}

   Fragments[m] = top;
   block_arr[file_arr[m]] = 1;
      top = 0;
    }
 }
 Printf("\n file Number \t file
 size\tblock Number\tblock Size\t Fragment");

  for (m=0; m<nomber_of_files; m++)
{
   Printf("\n%d\t\t%d\t\t%d\t\t%d
        \t\t%d", m, files[m], file_arr[m];
   blocks[file_arr[m]], fragments[m]);
  }
   Print+f("\n");
    return 0;
}
```

Amay

C:\Users\AmanSenpai\Documents\os.exe

```
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 64.39 seconds with return value 0
Press any key to continue . . .
```