

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.

Graphic Era Hill University, Dehradun
(Answer Sheet for Online Examination Aug. 2021)

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Name: Shivam Dang Univ. Roll No. 2023098 Student ID 20051017
Date: 27 Aug 2021 Course: Bsc IT Branch: Sem: II Section: B
Subject Name: Operating System Subject Code: PR1202 Page No. 10

Q1) C program for worst fit Memory Management Scheme.

```
#include <stdio.h>
```

```
int main ( )
```

```
{
```

```
    int i, j, nblocks, 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", &nblocks);
```

```
    printf("\n Enter the total Number " " of files:");
```

```
    scanf("%d", &nfiles);
```

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

```
    for (i = 0; i < nblocks; i++)
```

```
{
```

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

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

```
}
```

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

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

```
{
```

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

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

```
}
```

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

```
{
```

```
        for (j = 0; j < nblocks; j++)
```

```
{
```

```
}
```

Shivam Dang
Signature of Student

(Answer Sheet for Online Examination Aug. 2021)

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Name: Univ.Roll No. Student ID

Date: Course: Branch: Sem.: Section:

Subject Name: Subject Code: Page No.

```
if (block-arr[j] != 1)
```

```
{
    temp = blocks[j] - files[i] - 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\n\t Block size \t Fragment");
```

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

```
{
    printf("\n %d \t %d \t %d \t %d \t %d \t %d",
        i, files[i], file-arr[i], blocks[file-arr[i]],
        frag[i]);
}
```

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

```
}
```

Shivam Raj
Signature of Student