

Date — 27-08-2021
Name — Ayushi
Roll no. — 2023044
Subject — OS (Lab Exam)

1- Source Code

```
#include <stdio.h>
#include <conio.h>
#define max 25
void main()
{
    int frag [max], b [max], f [max], i, j, nb, nf, temp;
    static int ff [max], ff [max];
    printf ("\n Memory Management Scheme - First Fit");
    printf ("\n Enter the number of blocks: ");
    scanf ("%d", &nb);
    printf ("\n Enter the number of files: ");
    scanf ("%d", &nf);
    printf ("\n Enter the size of the blocks: -\n");
    for (i=1; i<=nb; i++)
    {
        printf ("Block %d:", i);
        scanf ("%d", &b[i]);
    }
    printf ("\n Enter the size of the files: -\n");
    for (i=1; i<=nf; i++)
```

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```
{
    printf("File %d:", i);
    scanf("%d", &f[i]);
}
for (i=1; i<=nf; i++)
{
    for (j=1; j<=nb; j++)
    {
        if (b[j] != 1)
        {
            temp = b[j] - f[i];
            if (temp >= 0)
            {
                ff[i] = j;
                break;
            }
        }
    }
    frag[i] = temp;
    b[ff[i]] = #;
}
```

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```
printf ("\n File no: \t File_size: \t Block no: \t  
File Block size: \t Fragment");
```

```
for (i=1; i<=nf; i++)
```

```
printf ("\n %d \t \t %d \t \t %d \t \t %d \t %d",  
        i, f[i], ff[i], b[ff[i]], frag[i]);
```

```
getch();
```

```
}
```

```
C worst.c X
C worst.c > main()
1 #include<stdio.h>
2 #include<conio.h>
3 #define max 25
4 void main()
5 {
6     int frag[max].h[max].f[max].i.i.h.n.f.tem;
```

Windows PowerShell
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Try the new cross-platform PowerShell <https://aka.ms/pscore6>

PS C:\Users\DELL\Desktop> cd "c:\Users\DELL\Desktop\" ; if (\$?) { gcc worst.c -o worst } ; if (\$?) { .\worst }

Enter the number of blocks: 3
Enter the number of files: 2

Enter the size of the blocks:-
Block 1: 5
Block 2: 2
Block 3: 7
Enter the size of the files :-
File 1: 1
File 2: 4

File_no:	File_size :	Block_no:	Block_size:	Fragement
1	1	1	5	4
2	4	3	7	3

PS C:\Users\DELL\Desktop> |