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Sec: A

Paper Name: Operating System

Code: PBI-202

Q-1 Write a C Program code for Worst Fit Memory  
file 2:4.

Ans:

```
#include <stdio.h>
#define max 25
```

```
int main ()
{
    int frag[max], b[max], f[max], i, j, nb, nF, temp, highest
    = 0;
    static int bf[max], ff[max];
```

```
printf("\n Enter the number of blocks:");
scanf("%d", &nb);
```

```
printf("Enter the number of files:");
scanf("%d", &nF);
```

```
printf("Enter the size of blocks:-\n");
for(i=1; i<=nb; i++) {
```

```
printf("Block %d: ", i);
```

```

scanf("%d", &b[i]);
}
printf("Enter the size of the file: \n");
for (i = 1; i <= n; i++)
{
    printf("File %d:", i);
    scanf("%d", &F[i]);
}
for (i = 1; i <= n; i++)
{
    for (j = 1; j <= nb; j++)
    {
        if (b[j] != 1)
        {
            temp = b[j] - F[i];
            if (temp >= 0)
            {
                if (highest < temp)
                {
                    FFF[i] = j;
                    highest = temp;
                }
            }
        }
    }
    Frag[i] = highest;
    b[FFF[i]] = 1;
    highest = 0;
}
printf("\n file no: \t File size: \t Block-no: \t Block-size: \t Fragmentation");
for (i = 1; i <= n; i++)
    printf("\n %d \t \t %d \t \t %d \t \t %d", i, F[i], FFF[i], b[FFF[i]], Frag[i]);
Return 0;
}

```

```
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	3	7	6
2	4	1	5	1

```
-----
Process exited after 9.589 seconds with return value 0
Press any key to continue . . .
```