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Practical - OS

Q-1

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

```
int main()
```

```
{
```

```
printf("\n\t\tMemory  
Management")
```

```
"Scheme - Worst Fit");
```

```
int i, j, nblocks, nfiles, temp, top = 0;
```

```
int frag[10], block[10], files[10];
```

```
static int block_arr[10], file_arr[10];
```

```
printf("\nEnter the Number" of Block:");
```

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

```
printf("Enter the Number" of Files:);
```

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

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

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

```
{
```

```
printf("Block %d: \t", i+1);
```

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

```

printf ("File %d: \n", i + 1);
scanf ("%d", &files[i]);
}

```

```

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

```

```

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

```

```

        if (block - am[j] != 1)
        {

```

```

            if (top < temp)
            {

```

```

                file - am[i] = j;
                top = temp;
            }
        }
    }

```

```

    frag[i] = top;
    block - am[file - am[i]] - 1;
    top = 0;
}
}

```

```

printf ("\n File Number \n + file size \n"
        "Block Number \n + Block
        size \n + Fragment");
for (i = 0; i < nfiles; i++)
{

```


Memory Management Scheme - Worst Fit

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 Number	File Size	Block Number	Block Size	Fragment
0	1	2	7	6
1	4	0	5	0

Process exited after 45.26 seconds with return value 0

Press any key to continue . . .