

NAME - Priyanshu Uniyal.

UNIVERSITY Roll No - 2023079.

SUB NAME - Operating System.

SUB CODE - PBI 201

STUDENT ID - 20051070 ①.

DATE - 27/08/2021.

COURSE - BSc IT; SEC - A.

SEM - 2<sup>nd</sup>.

### ① Worst fit Memory Management Scheme:-

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

```
int main()
```

```
{ printf("\n\t\t\t\t\tMemory Management - Worst fit");
```

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

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

```
static int block-arr[10], file-arr[10];
```

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

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

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

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

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

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

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

```
scanf("%d", &block-arr[i]);
```

```
} printf("\nEnter the size of the files: \n");
```

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

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

```
scanf("%d", &file-arr[i]);
```

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```

for (i=0; i < nfiles; i++)
{
    for (j=0; j < nblocks; j++)
    {
        temp = blocks[j] - 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 \t Block Size \t fragment");
for (i=0; i < nfiles; i++)
{
    printf("\n %d \t %d \t %d \t %d \t %d", i, files[i], file - arr[i], blocks[file - arr[i]], frag[i]);
}
printf("\n");
return n;
}

```

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### Memory Management - Worst Fit

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        |

PS C:\Users\hp\c programming\operating system> |