

Name - Khushboo Upadhyay  
U. Roll No - 2023061  
S. ID - 20052088.

Khushboo

Ques 1

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

```
int main()
```

```
{ printf ("\\n\\t\\t Memory Management " " - Worst Fit ");
```

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

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

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

```
printf ("\\n Enter the Total no. of " " of Blocks : ");
```

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

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

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

```
{ print ("Block no. %d: \\t", i+1);
```

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

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

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

```
{ print ("File no. %d: \\t", i+1);
```

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

```
}
```

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

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

```
{ if (block_arr[j] != 1)
```

```
{ temp = blocks[j] - files[i];
```



```

if (Temp >= 0)
{
    if (top < temp)
    {
        file_an[i] = j;
        top = temp;
    }
}
frag[i] = top;
block_an[file_an[i]] = 1;
top = 0;
printf (" \n file Number \t File size \t " "Block Number \t
        Block size \t Fragments");
for (i=0; i < nfiles; i++)
{
    printf (" \n %d \t \t %d \t \t %d \t \t %d \t \t %d", i, files[i].
        file_an[i], block [file_an[i]], frag[i]);
}
printf (" \n ");
return 0;
}

```

Shushba  
 20052088.



New File

Online C Compiler - online editor

online\_c\_compiler

MapsNewsTranslate(1) C Programming...Online C Compiler...SWAYAMDeletion in a Linked

Run

Debug

Stop

Share

Save

Beautify

main.c

```
28 if (block_arr[j] != 1)
29 {
```

input

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

...Program finished with exit code 0

Press ENTER to exit console.

Scanned by TapScanner