

2 Arena

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Course :- BSCIT

Branch :- Dehradun

Semester :- II

Sec :- 2B

Paper Name :- Operating system

code :- PB1-202

Q1 :- Write a c program code for word file memory management

Ans :- #include <stdio.h>
#define max 25

int main()

{
 int freq[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("\n Enter the size of the block : \n");
 for (i = 1; i <= nb; i++)
 {
 printf("Block %d : ", i); scanf("%d", &b[i]);
 }
}

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

```
    printf("File %.d:", i);
    scanf("%.d", &f[i]);
```

```
}
```

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

```
    for(j=1; j<=nb; j++)
```

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

```
        {
```

```
            temp = bf[j] - f[i];
```

```
            if(temp >= 0)
```

```
            if(highest < temp)
```

```
            {
```

```
                ff[i] = j;
```

```
                highest = temp;
```

```
            }
```

```
        }
```

```
    }
```

```
    frag[i] = highest;
```

```
    bf[ff[i]] = 1;
```

```
    highest = 0;
```

```
}
```

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

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classmate

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```
for (i = 1; i <= n; i++)
    printf("In %d | t | t | %d | t | t | %d | t | t | %d | t | t | %d",
           i, f[i], ff[i], b[ff[i]], frag[i]);
```

between 0;

2

```
View Project Execute Tools AStyle Window Help
D:\Workspace\wc.exe
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 . . .

- warnings: 0
- Output Filename: D:\Workspace\wc.exe
- Output Size: 129.3310546875 KiB
```