

Ex. No.: 10b)
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FIRST FIT

Aim:

To write a C program for implementation memory allocation methods for fixed partition using first fit.

Algorithm:

1. Define the max as 25.
- 2: Declare the variable frag[max], b[max], f[max], i, j, nb, nf, temp, highest=0, bf[max], ff[max]. 3:
- Get the number of blocks, files, size of the blocks using for loop.
- 4: In for loop check $bf[j] \neq 1$, if so $temp = b[j] - f[i]$
- 5: Check highest

Program Code:

```
include <stdio.h>
int main(){
    int n, m frag[max], b[max], f[max], i, j, nb,
    static int bf[max], ff[max];
    printf ("Enter number of blocks: ");
    scanf ("%d", &nb);
    printf ("\nEnter size of each block: \n");
    for(i=0; i<nb; i++){
        printf ("Block %d = ", i+1);
        scanf ("%d", &b[i]);
    }
    printf ("\nEnter size of each file = \n");
    for(i=0; i<nf; i++){
        printf ("File %d = ", i+1);
        scanf ("%d", &f[i]);
    }
}
```


Sample Output:

```
Enter the number of blocks:4
Enter the number of files:3
Enter the size of the blocks:-
Block 1:5
Block 2:8
Block 3:4
Block 4:10
Enter the size of the files:-
File 1:4
File 2:4
File 3:7

File no:      File size :      Block no:      Block size:      Fragment:
1             1                  1                 5                  1
2             4                  2                 8                  1
3             7                  4                 10                 3
```

Result: c program for complementation of First Fit memory allocation has been executed successfully.

✓
J.M.