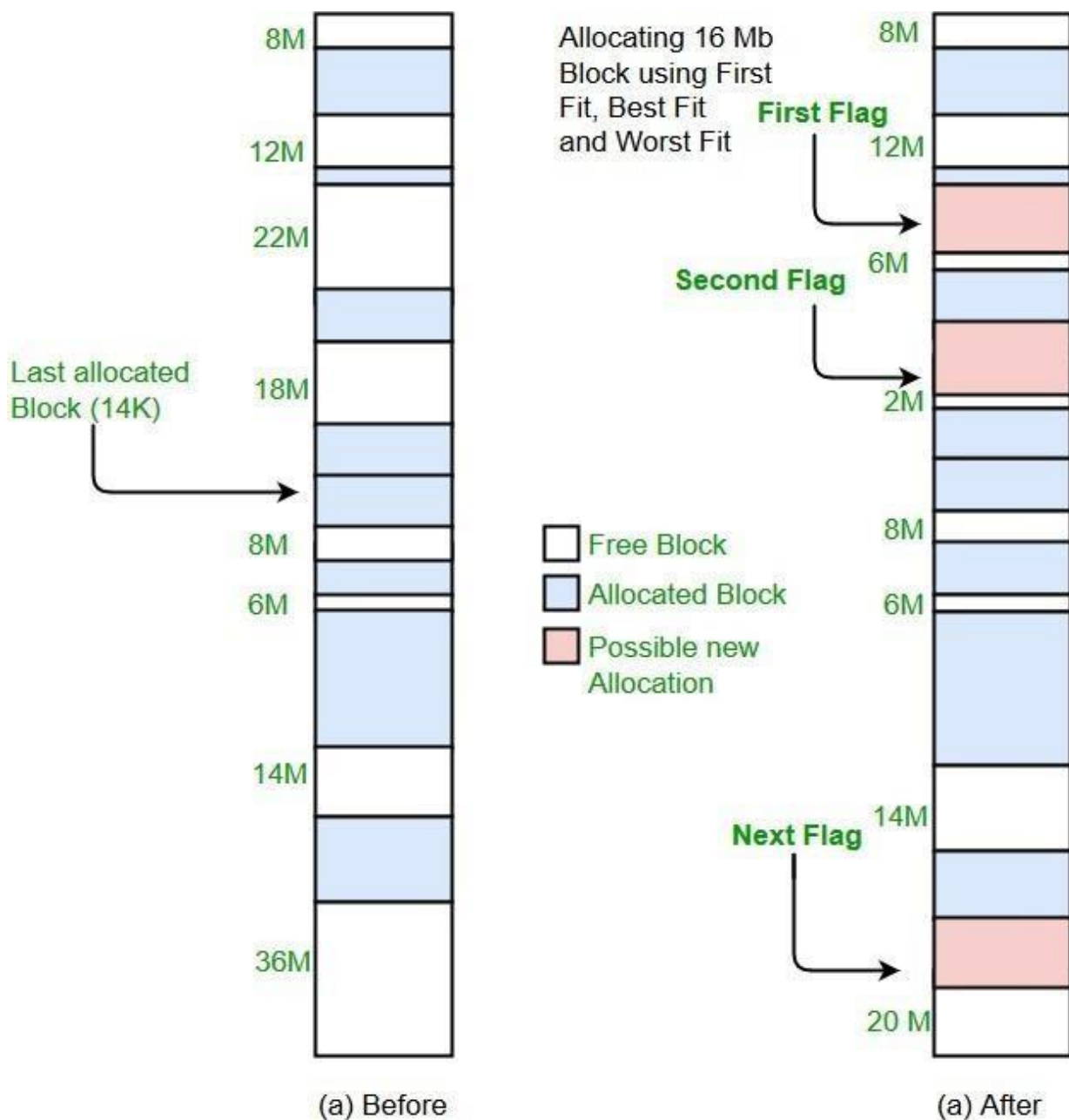


**Roll No : 31**



**Implementation:**

- 1- Input memory blocks and processes with sizes.
- 2- Initialize all memory blocks as free.
- 3- Start by picking each process and find the minimum block size that can be assigned to current process i.e., find  $\min(\text{blockSize}[1], \text{blockSize}[2], \dots, \text{blockSize}[n]) > \text{processSize}[\text{current}]$ , if found then assign it to the current process.
- 5- If not then leave that process and keep checking the further processes.



Program :

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

```
int main()
{
    int fragments[10], blocks[10], files[10];
    int m, n, number_of_blocks, number_of_files, temp, top = 0;
    static int block_arr[10], file_arr[10];
    printf("\nEnter the Total Number of Blocks:\t");
    scanf("%d",&number_of_blocks);
    printf("Enter the Total Number of Files:\t");
    scanf("%d",&number_of_files);
    printf("\nEnter the Size of the Blocks:\n");
    for(m = 0; m < number_of_blocks; m++)
    {
        printf("Block No.[%d]:\t", m + 1);
        scanf("%d", &blocks[m]);
    }
    printf("Enter the Size of the Files:\n");
    for(m = 0; m < number_of_files; m++)
    {
        printf("File No.[%d]:\t", m + 1);
        scanf("%d", &files[m]);
    }
    for(m = 0; m < number_of_files; m++)
    {
        for(n = 0; n < number_of_blocks; n++)
        {
            if(block_arr[n] != 1)
            {
                temp = blocks[n] - files[m];
                if(temp >= 0)
                {
                    if(top < temp)
                    {
                        file_arr[m] = n;
                        top = temp;
                    }
                }
            }
        }
    }
}
```

```

        fragments[m] = top;
        block_arr[file_arr[m]] = 1;
        top = 0;
    }
}
printf("\nFile Number\tFile Size\tBlock Number\tBlock Size\tFragment");
for(m = 0; m < number_of_files; m++)
{
    printf("\n%d\t\t%d\t\t%d\t\t%d\t\t%d", m, files[m], file_arr[m], blocks[file_arr[m]],
fragments[m]);
}
printf("\n");
return 0;
}

```

Output :

```

C:\Users\Briana Rajan\Desktop\game dev\bit.exe

Enter the Total Number of Blocks:      5
Enter the Total Number of Files:      4

Enter the Size of the Blocks:
Block No.[1]:   100
Block No.[2]:   500
Block No.[3]:   200
Block No.[4]:   300
Block No.[5]:   600
Enter the Size of the Files:
File No.[1]:    212
File No.[2]:    417
File No.[3]:    112
File No.[4]:    426

File Number      File Size      Block Number      Block Size      Fragment
0                212            4                600            388
1                417            0                100            0
2                112            2                200            0
3                426            0                100            0

```

Conclusion : Thus worst fit  
algorithm was studied and  
implemented in C language.  
As the name suggests it is the

worst of all the three- best fit,  
first fit and worst fit  
algorithms as the biggest  
block available is dedicated  
to the processes that come in  
which may leave a bigger  
sized process entered at a  
later stage with no available  
blocks.