

# OPERATING SYSTEM - CS23431

## EX 10(B)

### FIRST FIT

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#### **PROGRAM:**

```
#include<stdio.h>

int main(){

    int n1;

    printf("Enter memory block size: ");

    scanf("%d",&n1);

    int mem[n1];

    printf("Enter value of memory blocks: ");

    for(int i=0;i<n1;i++){

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

    }

    int n2;

    printf("Enter process block size: ");

    scanf("%d",&n2);

    int p[n2];

    printf("Enter values of process blocks: ");

    for(int i=0;i<n2;i++){

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

    }

    int frag[n1],alloc[n2],emp[n1],allocsize[n2];

    for(int i=0;i<n1;i++){

        emp[i]=1;

    }

    for(int i=0;i<n2;i++){

        alloc[i]=-1;
```

```
}  
  
for(int i=0;i<n2;i++){  
    for(int j=0;j<n1;j++){  
        if(emp[j] && mem[j]>=p[i]){  
            alloc[i]=j;  
            allocsize[i]=mem[j];  
            frag[i]=mem[j]-p[i];  
            emp[j]=0;  
            break;  
        }  
    }  
}  
  
printf("FileNo\tFilesize\tBlockNo\tBlocksize\tFragment\t\n");  
  
for(int i=0;i<n2;i++){  
    {  
        printf("%d\t%d\t%d\t%d\t%d\t%d\n",i,p[i],alloc[i],allocsize[i],frag[i]);  
    }  
}
```

**OUTPUT:**

```
Enter memory block size: 4
Enter value of memory blocks: 5
8
1
10
Enter process block size: 3
Enter values of process blocks: 1
4
7
```

FileNo	Filesize		BlockNo	Blocksize	Fragment
0	1	0	5	4	
1	4	1	8	4	
2	7	3	10	3	