OPERATING SYSTEM - CS23431 EXP 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\n",i,p[i],alloc[i],allocsize[i],frag[i]); \\ \} \\ \}
```

OUTPUT

```
Enter memory block size: 4
Enter value of memory blocks: 5
10
Enter process block size: 3
Enter values of process blocks: 1
FileNo Filesize
                       BlockNo Blocksize
                                               Fragment
       1
               0
                       5
                               4
                               4
       4
               1
                       8
       7
               3
                       10
                               3
```