CS23431 - OPERATING SYSTEM

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
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
```