//first fit algorithm

#include<stdio.h>

void main(){

int block\_size[10], process\_size[10],block\_no,process\_no,flags[10],allocation[10],i,j;

for(i=0;i<10;i++){

flags[i]=0;

allocation[i]=-1;

}

printf("enter number of blocks: ");

scanf("%d",&block\_no);

printf("enter size of each block:");

for(i=0;i<block\_no;i++)

scanf("%d",&block\_size[i]);

printf("\n enter number of processes:");

scanf("%d",&process\_no);

printf("enter size of process:");

for(i=0;i<process\_no;i++)

scanf("%d",&process\_size[i]);

for(i=0;i<process\_no;i++)

for(j=0;j<block\_no;j++);

if(flags[j]==0 && block\_size[j]>=process\_size[i])

{

allocation[j]=i;

flags[j]=1;

}

printf("\nblock no \t\t block size\t\t process no\t\t process size");

for(i=0;i<block\_no;i++)

{

printf("%d\t\t%d\t\t",i+1,block\_size[i]);

if(flags[i]==1)

printf("%d\t\t%d\t\t",allocation[i]+1,process\_size[allocation[i]]);

else

printf("not allocated");

}

}