//Sanket Sharma

//Best Fit

#include<stdio.h>

void main()

{

int fragment[20],b[20],p[20],i,j,nb,np,temp,lowest=9999;

static int barray[20],parray[20];

system("COLOR F0");

printf("\n\t\t\tMemory Management Scheme - Best Fit");

printf("\nEnter the number of blocks:");

scanf("%d",&nb);

printf("Enter the number of processes:");

scanf("%d",&np);

printf("\nEnter the size of the blocks:-\n");

for(i=1;i<=nb;i++)

{

printf("Block no.%d:",i);

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

}

printf("\nEnter the size of the processes :-\n");

for(i=1;i<=np;i++)

{

printf("Process no.%d:",i);

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

}

for(i=1;i<=np;i++)

{

for(j=1;j<=nb;j++)

{

if(barray[j]!=1)

{

temp=b[j]-p[i];

if(temp>=0)

if(lowest>temp)

{

parray[i]=j;

lowest=temp;

}

}

}

fragment[i]=lowest;

barray[parray[i]]=1;

lowest=10000;

}

printf("\nProcess\_no\tProcess\_size\tBlock\_no\tBlock\_size\tFragment");

for(i=1;i<=np && parray[i]!=0;i++)

printf("\n%d\t\t%d\t\t%d\t\t%d\t\t%d",i,p[i],parray[i],b[parray[i]],fragment[i]);

}

