Write a C program to implement the best-fit algorithm for memory management.

#include<stdio.h>

void main()

{

int b[20],p[20];

int i, j, nb, np;

printf(“Enter no of blocks\n”);

scanf(“%d”,&nb);

for(i=0;i<nb;i++)

{

printf(“Enter the %dst Block Size:\n”,i);

scanf(“%d”,&b[i]);

}

printf(“Enter the number of process:”,i);

scanf(“%d”,&np);

for(i=0;i<np;i++)

{

printf(“Enter the size of %d st Process :”,i);

scanf(“%d”,&p[i]);

}

for(i=0;i<nb;i++)

{

for(j=0;j<np;j++)

{

if(p[j]<=b[i])

{

printf(“Process %d allocated to %d\n”,j,b[i]);

p[j]=10000;

break;

}

}

}

for(j=0;j<np;j++)

{

if(p[j]!=10000)

{

printf(“Process %d is not allocated ”,j);

}

}

}

OUTPUT:

Enter no of Blocks

5

Enter the Ost Block size:500

Enter the 1st Block size:500

Enter the 2st Block size:500

Enter the 3st Block size:500

Enter the 4st Block size:500

Enter no of Process:

5

Enter the Ost Process size:100

Enter the 1st Process size:350

Enter the 2st Process size:400

Enter the 3st Process size:150

Enter the 4st Process size:200

The Process 0 allocated to 500

The Process 1 allocated to 400

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