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Course-BCA ‘B’

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Subject-operating system

/\*write a c program to implement best first fit memory management algorithm\*/

#include<stdio.h>

int main( )

{

int fragment[20],b[20],p[20],i,j,n\_b,n\_p,temp,low=9999;

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

printf("Memory Management Scheme - Best Fit");

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

scanf("%d",& n\_p);

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

scanf("%d",&n\_b);

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

for(i=1;i<=n\_b;i++)

{

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

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

}

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

for(i=1;i<=n\_p;i++)

{

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

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

}

for(i=1;i<=n\_p;i++)

{

for(j=1;j<=n\_b;j++)

{

if(barray[j]!=1)

{

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

if(temp>=0)

if(low>temp)

{

parray[i]=j;

low=temp;

}

}

}

fragment[i]=low;

barray[parray[i]]=1;

low=10000;

}

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

for(i=1;i<=n\_p && 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]);

}