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Bahuguna

Date - 27/8/2021

Subject - operating
system

University roll no - 2023014

Student ID. - 20051018

Program

a) WORST - FIT

```
#include <stdio.h>
#include <conio.h>
#define max 25
void main()
{
    int frag[max], b[max], f[max], i, j, nf, temp;
    static int bf [max], ff [max];
    clrscr();
    printf("\n Memory Management Scheme- first fit");
    printf("\n Enter the number of blocks: ");
    scanf("%d", &nb);
    printf("\n Enter the size of the blocks: -\n");
    for (i=1; i<=nb; i++)
    printf("\n Enter the number of files: ");
    scanf("%d", &nf);
    printf("\n Enter the size of the blocks: -\n");
    for (i=1; i<=nb; i++)
```

}

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```
printf ("block %d:", p);  
scanf ("%d", &b[p]);
```

```
}
```

```
printf ("Enter the size of the files :- \n");  
for (i = 1; i <= nf; i++)
```

```
{
```

```
printf ("file %d:", i);  
scanf ("%d", &f[i]);
```

```
}
```

```
for (i = 1; i <= nf; i++)
```

```
{
```

```
printf ("file %d:", i);  
scanf ("%d", &f[i]);
```

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

```
{
```

```
if (b[j] != 1)
```

```
{
```

```
temp = b[j] - f[i];
```

```
if (temp >= 0)
```

```
{
```

```
ff[i] = j;
```

```
break;
```

Adrian

```

}
}
}

```

```

frag[i] = temp;
bf[ff[i]] = 1;

```

```

}

```

```

printf("\n file-no: \t file-size: \t block-no: \t block-size: \t fragment");

```

```

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

```

```

printf("\n %d \t %d \t %d \t %d \t %d \t %d", i, f[i], ff[i], b[ff[i]], frag[i]);
getch();

```

```

}

```

INPUT.

Enter the number of blocks: 3

Enter the number of files: 2

Enter the size of the blocks: -

block 1: 5

block 2: 2

block 3: 7

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Enter the size of the files :-

file 1: 1

file 2: 4

Output :-

file No.	file size	block No	block size	fragment
1	1	1	5	4
2	4	3	7	3

Akhil

Edit Selection View Go Run Terminal Help

EXPLORER

A

exe

unary.c

unary.exe

delete.c

sert.c

sert.exe

sectionn.c

xe

kedlist.c

kedlistnode.c

kedlistnode.exe

ch.c

ch.exe

c.json

r.c

delete.c

search.c

l.c

linkedlist.c

```

C l.c > main()
1 //abhishek Bhauguna
2 //student id - 20051018
3 #include<stdio.h>
4 #include<conio.h>
5 #define max 25
6 void main()
7 {
8   int frag[max],b[max],f[max],i,j,nb,nf,temp;
9   static int bf[max],ff[max];
10
11   printf("\n\tMemory Management Scheme - First Fit");
12   printf("\nEnter the number of blocks:");
13   scanf("%d",&nb);
14   printf("Enter the number of files:");
15   scanf("%d",&nf);
16   printf("\nEnter the size of the blocks:-\n");
17   for(i=1;i<=nb;i++)
18   {
19     printf("Block %d:",i);
20     scanf("%d",&b[i]);
21   }
22   printf("Enter the size of the files :-\n");
23   for(i=1;i<=nf;i++)
24   {
25     printf("File %d:",i);
26     scanf("%d",&f[i]);
27   }
28   for(i=1;i<=nf;i++)
29   {
30     for(j=1;j<=nb;j++)
31     {

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

1	1	1	5	4
2	4	3	7	3

1: a

Live Share

e here to search

Ln 30, Col 7 Sources

```

1
printf("Enter the size of the files : \n");
for(i=1;i<=nf;i++)
{
printf("File %d:",i);
scanf("%d",&f[i]);
}
for(i=1;i<=nf;i++)
{
for(j=1;j<=nb;j++)
{
if(bf[j]!=1)
{
temp=b[j]-f[i];
if(temp>=0)
{
ff[i]=j;
break;
}
}
}
frag[i]=temp;
bf[ff[i]]=1;
}
printf("\nfile_no:\tfile_size :\tblock_no:\tblock_size:\tFragement");
for(i=1;i<=nf;i++)
printf("\n%d\t\t%d\t\t%d\t\t%d\t\t%d",i,f[i],ff[i],b[ff[i]],frag[i]);
getch();
}
50

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

File 214

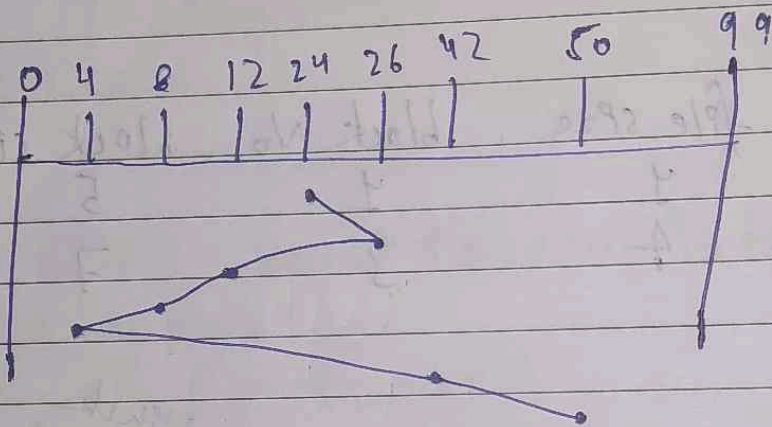
File_no:	File_size :	Block_no:	Block_size:	Fragment
1	1	1	5	4
2	4	3	7	5

Lit 2: Col 24 Spelling: 4 LIT 2

Ques 2

solⁿ
=

SSTF: The movement of disk head from 143 to others is as shown in diagram.



So, total head movement = $02 + 14 + 04 + 04 + 39 + 08$
= 70 cylinders.

seek time = $70 \times 6 = 420 \text{ msec} = 0.42 \text{ sec}$

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```
#include <stdio.h>
#include <stdio.h>
int main ()
{
    int i, j, & n = 0, n;
    int d [20];
    int disk; // loc of head.
    int temp, max;
    int dloc; // loc of disk in array
    printf ("Enter number of location (f'')");
    scanf ("%d", & n);
    printf ("Enter position of head (t'')");
    scanf ("%d", & disk);
    printf ("Enter elements of disk queue (n'')");
    for (i = 0; i < n; i++)
    {
        scanf ("%d", & d [i]);
    }
    d [n] = disk;
    n = n + 1;
}
```

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```

for (i=0; i<n; i++) // sorting disk locations
{
    for (j=i+1; j<n; j++)
    {
        if (d[i] > d[j])
        {
            temp = d[i];
            d[i] = d[j];
            d[j] = temp;
        }
    }
}

```

```

Max = d[n];
for (i=0; i<n; i++) // to find loc of disk of
                    // array
{
    if (disk == d[i]) { d % L = i; break; }
}

for (i = d % L; i >= 0; i--)
{
    printf ("%d --> ", d[i]);
}

```

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for $(u^0 = dloc + 1; i^n; it)$ ~~st~~ ~~at least~~.

```
printf("%d %d", d[i], d[i]);
```

$$som = disk + Max;$$

```

print f ("In Movement of total cylinders %d,
        ", some);
return 0;

```

g.

Abstract