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Course! - Bsc (it)

Sec - A

Semi - 2nd

Campus! - Dehradun

Roll NO! - 2023069

Subject → Practical (Operating System)

Student id! - 20052049

Program

#include <stdio.h>

int main()

{

printf("\n\t\t\t Memory Management - worst fit ");

int i, j, nblocks, nfiles, temp, top = 0;

int frag[10], blocks[10], files[10];

static int block_arr[10], file_arr[10];

printf("\n Enter the total number of Blocks :");

scanf("%d", &nblocks);

printf("Enter the total number of files :\n");

scanf("%d", &nfiles);

printf("Enter the size of the Blocks : \n");

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

{

printf("Block No. %d : \t", i+1);

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

}

printf("Enter the size of the Files : \n");

for (i=0; i < nfiles; i++)
{
printf ("file NO. %d!\t", i+1);
scanf ("%d", &files[i]);
}

Alkan
Garcia

for (i=0; i < nfiles; i++)
{
for (j=0; j < nblocks; j++)
{

if (block_arr[j] != 1)

{

temp = blocks[j] - files[i];

if (temp >= 0)

{

if (top < temp)

{

file_arr[i] = j;

top = temp;

}

}

}

frag[i] = top;

block_arr[file_arr[i]] = 1;

top = 0;

}

}

printf ("\n Files Number \t File size \t Block Number \t Block
size \t fragment");

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

{

printf ("\\n %d \\t \\t %d \\t \\t %d \\t \\t %d", i, files[i], file_nm[i], blocks[file_nm[i]], frag[i]);

}

printf ("\\n");

return 0;

}

(~~Deelan~~ Gusein).

Memory Management - Worst Fit

Enter the Total Number of Blocks: 3

Enter the Total Number of Files: 2

Enter the Size of the Blocks:

Block No.1: 5

Block No.2: 2

Block No.3: 7

Enter the Size of the Files:

File No.1: 1

File No.2: 4

File Number	File Size	Block Number	Block Size	Fragment
0	1	2	7	6
1	4	0	5	0

PS C:\Users\neelam\OneDrive\Documents\vs code c language\ds practice> |

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Q2.

#include <stdio.h>

#include <stdlib.h>

int main()

 Σ int RS[100], i, j, n, Total head Movement = 0, initial, size, move;

printf ("Enter the number of Requests \n");

scanf ("%d", &n);

printf ("Enter the Requests Sequence \n");

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

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

printf ("Enter initial head position \n");

scanf ("%d", &initial);

printf ("Enter total disk size \n");

scanf ("%d", &size);

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

 Σ for (j = 0; j < n - i - 1; j++) Σ if (RS[j] > RS[j+1]) Σ

(Agelam
Sains)

```
int temp;
```

```
temp = RS[j];
```

```
RS[j] = RS[j+1];
```

```
RS[j+1] = temp;
```

```
}
```

```
}
```

```
}
```

```
int index;
```

```
for (i=0; i<n; i++)
```

```
{
```

```
if (initial < RS[i])
```

```
{
```

```
index = i;
```

```
break;
```

```
}
```

```
}
```

```
for (i = index; i < n; i++)
```

```
{
```

```
Total head movement = Total head movement + abs(RS[i] - initial);
```

```
initial = RS[i];
```

```
}
```

```
Total Head movement = Total head movement + abs(size - RS[i-1] - 1);
```

```
initial = size - 1;
```

```
for (i = index - 1; i >= 0; i--)
```

```
{
```



```

Total head movement = Total head movement + abs(RS[i] - initial);
    initial = RS[i];
}
printf("Total head movement is %d", Total head movement);
return 0;
}

```

Afelam
Fusain

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
PS C:\Users\neelam\OneDrive\Documents\vs code c language\ds practice> cd "c:\Users\neelam\OneDrive\Documents\vs code c language\ds practice"
```

```
" ; if ($?) { g++ RR.C -o RR } ; if ($?) { .\RR }
```

```
Enter the number of Requests
```

```
7
```

```
Enter the Requests sequence
```

```
12
```

```
26
```

```
24
```

```
4
```

```
42
```

```
8
```

```
50
```

```
Enter initial head position
```

```
24
```

```
Enter total disk size
```

```
100
```

```
Total head movement is 170
```

```
PS C:\Users\neelam\OneDrive\Documents\vs code c language\ds practice> |
```