



BHAVANA SINGH

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main.c

```
1 #include <stdio.h>
2
3 #define MAX_FRAMES 10
4 #define MAX_PAGES 50
5
6 void fifoPageReplacement(int pages[], int n, int frames) {
7     int pageFrame[MAX_FRAMES];
8     int front = 0, rear = 0, count = 0, pageFaults = 0;
9
10    for (int i = 0; i < frames; i++) {
11        pageFrame[i] = -1; // Initialize frames to -1 (empty)
12    }
13
14    for (int i = 0; i < n; i++) {
15        int page = pages[i];
16        int found = 0;
17
18        // Check if the page is already in frame
19        for (int j = 0; j < frames; j++) {
20            if (pageFrame[j] == page) {
```

Output

```
Enter the number of pages: 5
Enter the page reference sequence: 1

ui
Enter the number of frames: Step 1:
Step 2:
Step 3:
Step 4:
Step 5:
Total Page Faults: 5

=== Code Execution Successful ===
```



**NTU.**
It all starts here.



Create a sustainable future

main.c

Output

Run

Share

```
59 ~ int main() {
60     int pages[MAX_PAGES], n, frames;
61
62     printf("Enter the number of pages: ");
63     scanf("%d", &n);
64
65     printf("Enter the page reference sequence: ");
66     for (int i = 0; i < n; i++) {
67         scanf("%d", &pages[i]);
68     }
69
70     printf("Enter the number of frames: ");
71     scanf("%d", &frames);
72
73     lruPageReplacement(pages, n, frames);
74
75     return 0;
76 }
77
```

```
Enter the number of pages: 2
Enter the page reference sequence: 1
1
Enter the number of frames: 2
Step 1: 1 -
Step 2: 1 -
Total Page Faults: 1

=== Code Execution Successful ===
```



main.c

53

Share

Run

Output

```

72 ~ int main() {
73     int pages[MAX_PAGES], n, frames;
74
75     printf("Enter the number of pages: ");
76     scanf("%d", &n);

```

```
=== Code Execution Successful ===
```



main.c

```
22 ~ int main() {
23     Record records[MAX_RECORDS];
24     int n;
25
26     printf("Enter the number of records: ");
27     scanf("%d", &n);
28     getchar(); // Consume newline
29
30 ~ for (int i = 0; i < n; i++) {
31         records[i].id = i + 1;
32         printf("Enter data for record %d: ", i + 1);
33         fgets(records[i].data, RECORD_SIZE, stdin);
34         records[i].data[strcspn(records[i].data, "\n")] = 0; //
           Remove newline
35     }
36
37     readSequentialFile(records, n);
38     return 0;
39 }
```

Share



Run

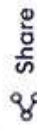
Output

```
- Enter the number of records: 2
Enter data for record 1: 1
Enter data for record 2: 2

Reading file sequentially:
Record 1: 1
Record 2: 2

=== Code Execution Successful ===
```


main.c



Run

Output

```

32 int n;
33
34 printf("Enter the number of blocks: ");
35 scanf("%d", &n);
36 getchar(); // Consume newline
37
38 indexBlock.blockCount = n;
39
40 for (int i = 0; i < n; i++) {
41     blocks[i].id = i + 1;
42     printf("Enter data for block %d: ", i + 1);
43     fgets(blocks[i].data, BLOCK_SIZE, stdin);
44     blocks[i].data[strcspn(blocks[i].data, "\n")] = 0; //
45     // Remove newline
46     indexBlock.blockPointers[i] = i;
47 }
48
49 readIndexedFile(blocks, indexBlock);
50 return 0;
51

```

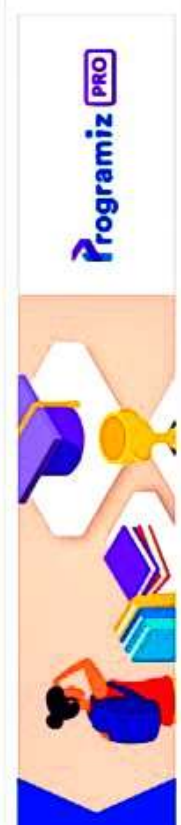
```

Enter the number of blocks: 2
Enter data for block 1: 1
Enter data for block 2: 5

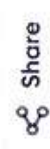
Reading file using indexed allocation:
Block 1: 1
Block 2: 5

=== Code Execution Successful ===

```



main.c



Run

Output

```
1 #include <stdio.h>
2 #include <stdlib.h>
3 #include <string.h>
```

```
4
5 #define MAX_BLOCKS 100
6 #define BLOCK_SIZE 50
```

```
7
8 // Structure to represent a file block
9 typedef struct FileBlock {
```

```
10     int id;
11     char data[BLOCK_SIZE];
12     struct FileBlock *next;
13 } FileBlock;
```

```
14
15 // Function to read file using linked allocation
16 void readLinkedFile(FileBlock *head) {
17     printf("\nReading file using linked allocation:\n");
18     FileBlock *current = head;
19     while (current != NULL) {
20         printf("Block %d: %s\n", current->id, current->data);
```

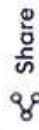
```
- Enter the number of blocks: 3
Enter data for block 1: 1
Enter data for block 2: 4
Enter data for block 3: 1
```

```
Reading file using linked allocation:
Block 1: 1
Block 2: 4
Block 3: 1
```

```
=== Code Execution Successful ===
```



main.c



Run

Output

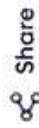
```
1 #include <stdio.h>
2 #include <stdlib.h>
3
4 #define MAX_REQUESTS 100
5
6 // Function to simulate FCFS disk scheduling
7 void fcfsDiskScheduling(int requests[], int n, int head) {
8     int totalMovement = 0;
9
10    printf("\nDisk request order: ");
11    for (int i = 0; i < n; i++) {
12        printf("%d ", requests[i]);
13        totalMovement += abs(requests[i] - head);
14        head = requests[i];
15    }
16
17    printf("\nTotal head movement: %d\n", totalMovement);
18 }
19
20 int main() {
```

```
Enter the number of disk requests: 4
Enter the disk request sequence: 4
4
3
2
Enter the initial head position: 1
Disk request order: 4 4 3 2
Total head movement: 5

=== Code Execution Successful ===
```




main.c



Run

Output

```
1 #include <stdio.h>
2 #include <stdlib.h>
3
4 #define MAX_REQUESTS 100
5
6 // Function to simulate C-SCAN disk scheduling
7 void cScanDiskScheduling(int requests[], int n, int head, int
    diskSize) {
8     int totalMovement = 0, i;
9     int left[MAX_REQUESTS], right[MAX_REQUESTS], lCount = 0,
        rCount = 0;
10
11     // Separating requests into left and right of head
12     for (i = 0; i < n; i++) {
13         if (requests[i] < head)
14             left[lCount++] = requests[i];
15         else
16             right[rCount++] = requests[i];
17     }
18
19     Enter the number of disk requests: 6
20     Enter the disk request sequence: 1
21     2
22     3
23     45
24
25     5
26     6
27     Enter the initial head position: 8
28     Enter the disk size: 8
29
30     Disk request order: 1 2 3 4 5 6
31     Total head movement: 14
32
33     === Code Execution Successful ===
```

Airplane mode off



```
17 }
18
19 // Sorting left and right requests
20 for (i = 0; i < lCount - 1; i++) {
21     for (int j = 0; j < lCount - i - 1; j++) {
22         if (left[j] > left[j + 1]) {
23             int temp = left[j];
24             left[j] = left[j + 1];
25             left[j + 1] = temp;
26         }
27     }
28 }
29 for (i = 0; i < rCount - 1; i++) {
30     for (int j = 0; j < rCount - i - 1; j++) {
31         if (right[j] > right[j + 1]) {
32             int temp = right[j];
33             right[j] = right[j + 1];
34             right[j + 1] = temp;
35         }
36     }
37 }
```

Enter the number of disk requests: 4
Enter the disk request sequence: 5
1
2
3
Enter the initial head position: 4
Enter the disk size: 4
Enter direction (1 for high, 0 for low): 1
Disk request order: 5 3 2 1
Total head movement: 5
==== Code Execution Successful ===



main.c

```
1 #include <stdio.h>
2 #include <sys/types.h>
3 #include <sys/stat.h>
4 #include <unistd.h>
5
6 ~ int main() {
7     const char *filename = "example.txt";
8
9     struct stat fileStat;
10
11     // Get the file status
12     if (stat(filename, &fileStat) < 0) {
13         perror("stat");
14         return 1;
15     }
16
17     // Display current permissions
18     printf("File: %s\n", filename);
19     printf("Permissions: ");
20     printf( (S_IRUSR & fileStat.st_mode) ? "r" : "-");
```



Share

Run

Output

```
stat: No such file or directory

=== Code Exited With Errors ===
```



Search

