Programiz C Online Compiler

main.c

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```c
#include <stdio.h>
#define FRAME_SIZE 3
#define PAGE_SIZE 10
int findOptimalPage(int pages[], int frame[], int n, int index) {
    int farthest = index, pos = -1;
    for (int i = 0; i < FRAME_SIZE; i++) {
        int j;
        for (j = index; j < n; j++) {
            if (frame[i] == pages[j]) {
                if (j > farthest) {
                    farthest = j;
                    pos = i;
                }
                break;
            }
        }
        if (j == n) return i;
    }
    return pos;
}
void optimalPageReplacement(int pages[], int n) {
    int frame[FRAME_SIZE], pageFaults = 0;
    for (int i = 0; i < FRAME_SIZE; i++) frame[i] = -1;

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

Output

```
Total Page Faults: 6


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

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```c
#include <stdio.h>

#define MAX_RECORDS 100

void readRecords(char records[MAX_RECORDS][50], int count) {
    for (int i = 0; i < count; i++) {
        printf("Record %d: %s\n", i + 1, records[i]);
    }
}

int main() {
    char records[MAX_RECORDS][50] = {
        "Record 1", "Record 2", "Record 3", "Record 4", "Record 5"
    };
    int count = 5;

    readRecords(records, count);
    return 0;
}
```

Output

```
Record 1: Record 1
Record 2: Record 2
Record 3: Record 3
Record 4: Record 4
Record 5: Record 5


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