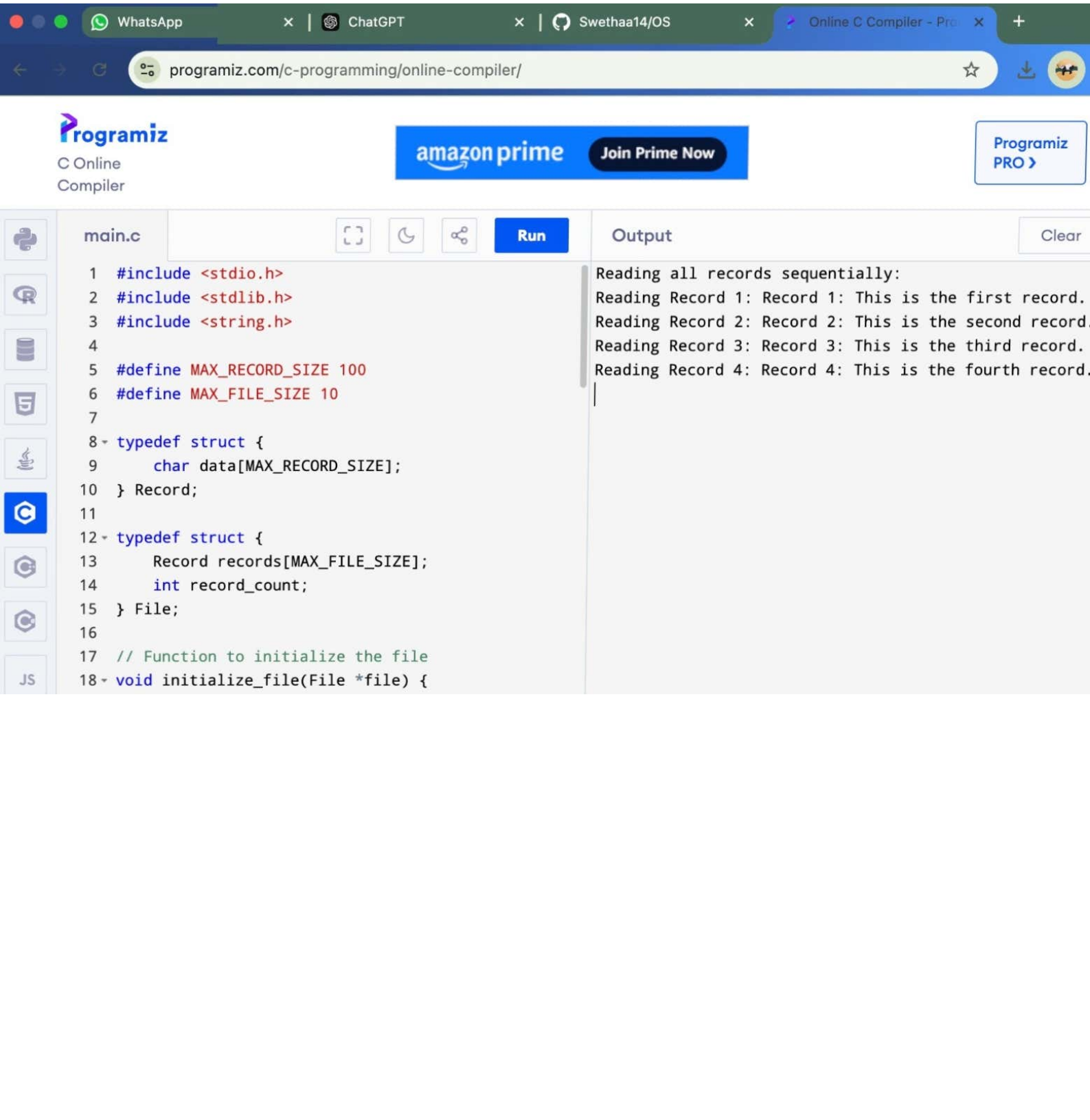
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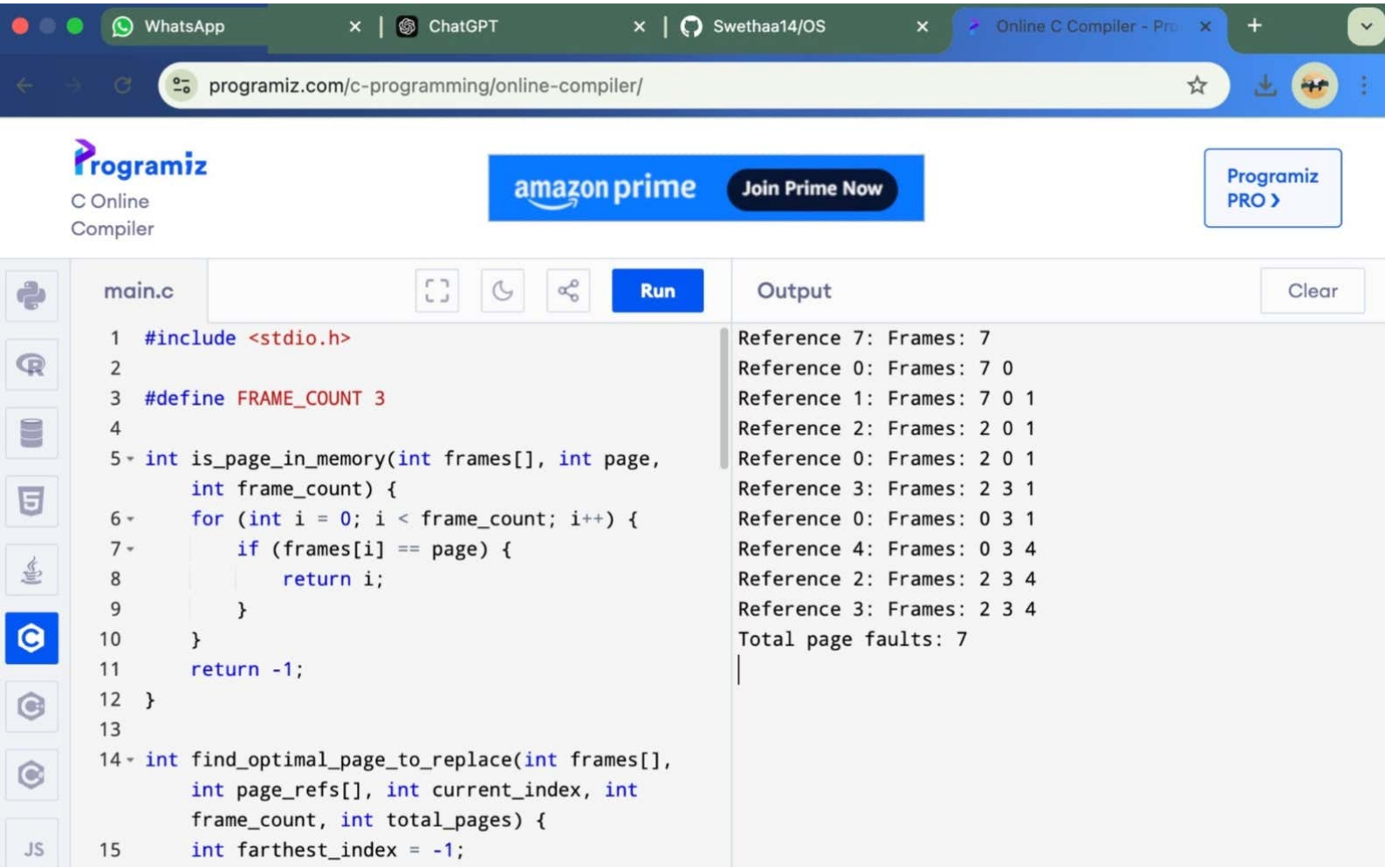
main.c
Run
Output
Clear
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#define MAX_RECORD_SIZE 100
#define MAX_FILE_SIZE 10
typedef struct {
char data[MAX_RECORD_SIZE];
} Record;
typedef struct {
Record records[MAX_FILE_SIZE];
int record_count;
} File;
// Function to initialize the file
void initialize_file(File *file) {
Reading all records sequentially:
Reading Record 1: Record 1: This is the first record.
Reading Record 2: Record 2: This is the second record.
Reading Record 3: Record 3: This is the third record.
Reading Record 4: Record 4: This is the fourth record.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main.c
Run
Output
Clear
#include <stdio.h>
#define FRAME_COUNT 3
int is_page_in_memory(int frames[], int page, int frame_count) {
for (int i = 0; i < frame_count; i++) {
if (frames[i] == page) {
return i;
}
}
return -1;
}
int find_optimal_page_to_replace(int frames[], int page_refs[], int current_index, int frame_count, int total_pages) {
int farthest_index = -1;
Reference 7: Frames: 7
Reference 0: Frames: 7 0
Reference 1: Frames: 7 0 1
Reference 2: Frames: 2 0 1
Reference 0: Frames: 2 0 1
Reference 3: Frames: 2 3 1
Reference 0: Frames: 0 3 1
Reference 4: Frames: 0 3 4
Reference 2: Frames: 2 3 4
Reference 3: Frames: 2 3 4
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