1. Write a C program for simulation of GREP UNIX command

#include <stdio.h>

#include <stdlib.h>

#include <string.h>

#define MAX\_LINE 1024

int main(int argc, char \*argv[]) {

FILE \*fp;

char line[MAX\_LINE];

if (argc != 3) {

printf("Usage: %s <pattern> <filename>\n", argv[0]);

return 1;

}

char \*pattern = argv[1];

char \*filename = argv[2];

fp = fopen(filename, "r");

if (fp == NULL) {

perror("Error opening file");

return 1;

}

while (fgets(line, sizeof(line), fp)) {

if (strstr(line, pattern)) {

printf("%s", line);

}

}

fclose(fp);

return 0;

}