```
1 #include <stdio.h>
 2 #include <stdlib.h>
 3 #include <math.h>
 4
 5 /* PROTOTIPOS */
 6 void simplificaFraccion(long *, long *);
7 long mcd(long, long);
9 /* FUNCION PRINCIPAL */
10 int main(void) {
11
      long num, den, max;
12
13
       puts("=======");
                   SIMPLIFICAR FRACCION
14
15
       puts("========\n");
16
       printf("Introduce el numerador: ");
17
18
       scanf("%ld", &num);
19
       printf("Introduce el denominador: ");
20
       scanf("%ld", &den);
21
22
       printf("Fraccion introducida: %ld/%ld\n", num, den);
23
       simplificaFraccion(&num, &den);
24
       printf("Fraccion simplificada: %ld/%ld\n", num, den);
25
26
       puts("");
27
       system("pause");
28
       return 0;
29 }
30
31 void simplificaFraccion(long *num, long *den) {
      long max;
32
33
       int sign = 0;
34
35
       if((*num * *den) < 0) sign = 1;
36
       max = mcd(labs(*num), labs(*den));
37
38
39
       *num = labs(*num) / max;
       *den = labs(*den) / max;
40
41
42
       if(sign) *num = -(*num);
43 }
44
45 long mcd(long a, long b) {
46
      long c;
47
48
       if(b > a) {
49
          long temp = a;
50
           a = b;
51
           b = temp;
       }
52
53
      do {
54
55
           c = a \% b;
56
           if(c \neq 0) {
57
               a = b;
58
               b = c;
59
       } while(c \neq 0);
60
```

27/5/2021 main.c

61 62 return b; 63 }

localhost:4649/?mode=clike 2/2