// generador lineal mixto de numeros alea

#include<stdio.h>

#include<conio.h>

#include<math.h>

#include<ctype.h>

#include<stdlib.h>

int f(int x, int a, int b)

{

int y;

y=a\*x+b; // es la forma de escribir x^2

return(y);

}

int main (void)

{

FILE \*doc;

doc=fopen("datos.txt", "w");

double m, a, h, b, n;

int x0;

int i;

char corre='s';

while (corre=='s')

{

printf("\n\t Dame a " );

fprintf(doc, "\n\t a" );

scanf("%lf", &a);

printf("\n a=%lf", a);

fprintf(doc, "\n a=%lf", a);

printf("\n\t Dame b " );

fprintf(doc, "\n\t b" );

scanf("%lf", &b);

printf("\n b=%lf", b);

fprintf(doc, "\n d=%lf", b);

printf("\n\t Dame el de la semilla: " );

fprintf(doc, "\n\t Dame el de la semilla: " );

scanf("%2d", &x0);

printf("\n x0=%2d", x0);

fprintf(doc, "\n x0=%lf", x0);

printf("\n\t Dame el valor del módulo: " );

fprintf(doc, "\n\t Dame el valor del módulo: " );

scanf("%lf", &m);

printf("\n m=%lf", m);

fprintf(doc, "\n m=%lf", m);

 printf("\n %2d %2d %2d ", 0, x0, f(x0,a,b)%8);

 fprintf(doc,"\n %2d %2d %2d ", 0, x0, f(x0,a,b)%8);

i=0;

 do

 {

 i++;

 ;

 x0=f(x0,a,b)%8;

 printf("\n %2d %2d %2d ", i, x0, f(x0,a,b) % 8);

 fprintf(doc, "\n %2d %2d %2d ", i, x0, f(x0,a,b) % 8);

 }while((i<m-1));

printf("\n\t Deseas tabular otra vez (s/n): ");

//fprintf(doc, "\n\t Deseas tabular otra vez (s/n): ");

corre = tolower(getche());

}

printf("\n\n\t ");

//fprintf(doc, "\n\n\t ");

system("pause");

fclose(doc);

return 0;

}