

Name : KAMCHE YANN ARNAUD

Matricule: FE21A208

Task: Implement a Random number generator.

This is an implementation of random number generator using pointers in C

Screenshot of Code

```
// Random number generator using C
#include <stdio.h>
#include <stdlib.h>
#include <time.h>

void random(int* x, int a, int c, int m) {
    *x = (a * (*x) + c) % m;
}

int main() {
    int seed = time(NULL);
    int x = seed;
    int a = 1103515245;
    int c = 12345;
    int m = 2147483648;
    for (int i = 0; i < 10; i++) {
        random(&x, a, c, m);
        printf("%d\n", x);
    }

    return 0;
}
```

Results

```
C:\Users\yann\Desktop\Untitled1.exe
-1712642017
374585196
1292906805
1122060746
2057578299
-1904550312
1780460465
-1850591082
807664663
1189840900

-----
Process exited after 0.07924 seconds with return value 0
Press any key to continue . . .
```

```
C:\Users\yann\Desktop\Untitled1.exe
-878986229
1612487400
1523635457
1268199334
1078463975
-1164673644
1676984381
1308008498
-276979325
1845878528
```

```
C:\Users\yann\Desktop\Untitled1.exe
-417800837
-2127300712
-266277903
-212986922
265147991
1346172228
-1287170515
628070242
-395345677
1605771696

-----
Process exited after 0.1256 seconds with return value 0
Press any key to continue . . .
```