SBCM Lab 3 Єгоров ФІ-03

```
m = 281;
```

Add:

Elem1=1001001111101101111110001111101000000110111 1011000000011011010110010010001010101000100101010 1010010101110111011011011000111100111101001001010 0010101011010001100111101010011110100001001101010 0010010101100111010100100010001100100000100111110 101011001110111111111010110010010011101001

Elem2=100011101111011001000100011010101011011100 1111001001100100001010110011001010100100010000000 1100010000011010001010010110110110100000010111010 0000010101101110110101100000010010001101100101101 0000010101001110010111101101001111101110101100011 01001000001000101011011100011110000000100

Output:

```
11001011001110010010100110111000100000100101110001111100101010000101110111101001011101111101000011010100001100100111010000000010001111100100101011100001010011010111001
101011011111101100000110011100000000111110110110110011001110000000001010001100111000010101111100000111011000101
```

Time:

115.68ms

Mul:

**Elem1=100100111110110111111000111110100000110111
101100000001101101011001001000101010100010010101010
10100101011101110110110001111001111010010010100010
0010101011010001100111101010011110100001001101010
0010010101100111010100100010001100100000100111110
1010110011101111111110101100100100111101001**

**Elem2=1000111011110110010001000110101010110111100
11110010011001000010101100110010101001000100000000
1100010000011010001010010110110110100000010111010
0000010101101110110101100000010010001101100101101
0000010101001110010111101101001111101110101100011
01001000001000101011011100011110000000100**

Output:

```
100100101010100111110111010001011000011100101011011101100111111111010010001110000100100011111010011011001100011000111111011000000010111111011110110100011110011101
0111011100010010111000011000101100100110101001110110000100100010100011101110111111111011011101101111011101
```

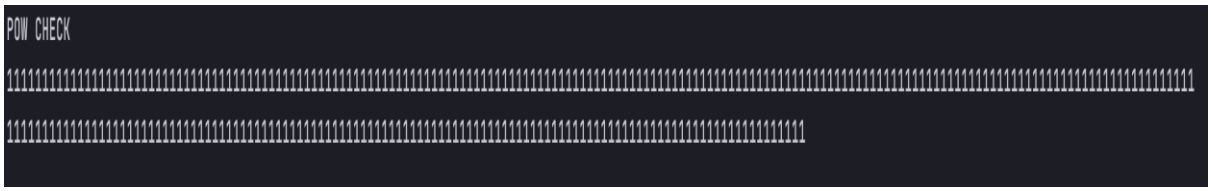
Time:

148.363ms

Pow check:

Elem1=1001001111101101111110001111101000000110111011000000011011010110010010001010101000100101010100100101011101110110110110001111001111010010010100010101011010001100111101010011110100001001101010001001010110011101010010001000110010000010011111010110011101111111110101100100100111010011

Pow = 2^(281) - 1



Time:

0.984ms

Inverse check:

Elem1=1001001111101101111110001111101000000110111011000000011011010110010010001010101000100101010100100101011101110110110110001111001111010010010100010101011010001100111101010011110100001001101010001001010110011101010010001000110010000010011111010110011101111111110101100100100111010011

Output:

```
INVERSE CHECK
0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001
```

Quadratic:

Elem1=1001001111101101111110001111101000000110111011000000011011010110010010001010101000100101010100100101011101110110110110001111001111010010010100010101011010001100111101010011110100001001101010001001010110011101010010001000110010000010011111010110011101111111110101100100100111010011

Output:

```
QUADRATIC
1010011101111011111000001100000100101111100001010110100000100011011110101011100110110101010111110000011110101101000011000000000101110110101101100010010001011110010
0000100001010011111011010101111011001010000101100100110100010001001100011101011111011100001110001010000101110010
```

Quadratic:

Elem1=10010011111011011111100011111010000001101111011000000011011010110010010001010101000100101010101001010111011101101101100011110011110100100101000101011010001100111101010011110100001001101010010010010110011101010010001000110010000010011111010101100111011111111101011001001011101001

Elem2=10001111011110110010001000110101010110111001111100100110010000101011001100101010010001000000011000100000110100010100101101101101000000101110100000101011011101101011000000100100011010000101010011100101111011010011111011101011001101001000001000101011011100011110000000100