Номер зачетки: 1800189

1. создать текстовый файл с вашим ФИО

```
tailiga@raw:~$ cat > fullname
Khisamov Iskander Ravilevich
^Z
[1]+ Stopped cat > fullname
tailiga@raw:~$ cat fullname
Khisamov Iskander Ravilevich
```

2. зашифровать и расшифровать созданный текстовый файл используя "пароль", различными алгоритмами симметричного шифрования (минимум 3 алгоритма: des-cfb, rc2-ecb, aes-256-cfb)

3. попробовать расшифровать файл другим "паролем" и измененный зашифрованный файл

```
taitiga@raw:~$ openssl enc -aes-256-cfb -in fullname -out coded -iter 10000
enter aes-256-cfb encryption password:
Verifying - enter aes-256-cfb encryption password:
taiiiga@raw:~$ cat coded
Salted Voo+o\oooo(oo
                               aiiiga@raw:~$ echo 'text' >> coded گههه
                    EIt,zV↔
tailiga@raw:~$ cat coded
Salted Voo+o\0000(00
                    EIt,zV↔
                              øF♦♦9♦♦€ext
taitiga@raw: $ openssl enc -aes-256-cfb -d -in coded -out decoded -iter 10000
enter aes-256-cfb decryption password:
tailiga@raw:~$ cat decoded
Khisamov Iskander Ravilevich
♦6♦♦wtaiiiga@raw:~$
```

4. сгенерируйте симметричный ключ с помощью openssl rand (закодируйте в base64), длина ключа = 189, проделайте 1-2 задания с этим ключом

```
taiiiga@raw:~$ openssl rand -base64 189 > key
taiiiga@raw:~$ cat key
93JMtuQ7QAwJ4/x4wMZoVEXsQITxJoAqpjAAHCrUN8EmiMlQceQpNWM6Dig94pTT
cL5mNJQ21u6sJit3HQBuQIT1Za+6UxxCcou1lAX1HTHFus/wDTyONA+NVLCXzOEr
EIs/a6BDOxzzZEAHN9CT0VH8YdUv9ILLuu+mS7KnTMbhJq402TIz53a4J42Djssh
9FjSDvj9nDl67Zc+bA/EGzv6e42GvRw2sLNBEZ7vv0I95qiLVkLGGA0kAwXZ
taiiiga@raw:~$ openssl enc -des-cfb -in fullname -out coded -pass file:./key -iter 10000
taiiiga@raw:~$ cat coded
Salted_W@BFli*"<*q4*<)m****Openssl enc -des-cfb -d -in coded -out decoded -pass file:./key -iter 10000
taiiiga@raw:~$ cat decoded
Khisamov Iskander Ravilevich
```

```
tailiga@raw:~$ openssl rand -base64 189 > key
tailiga@raw:~$ cat key
/3bKAKMSADts1PaLa1r/8N159G8VaJZHBOoqXstXAggpsgaz6beIa95l9+NEOfqe
lRu1QmLveO9fviW8wwwuJ2QtRq+IRHnMprkV8lgLGnkDCyxZwkNmNj81xB2cAT8H
uMXQApFpUf0Ggt/xFAJ+ixOa2StTI2521t8cJ5701o3VLLE1FrzJtPEchIZs64sW
+HQMmqZ30pS1/GVxw11bzzCpunPlzg83s9B6nZEqDCGv4LVpW2eWVkmEF/lE
tailiga@raw:~$ openssl enc -rc2-ecb -in fullname -out coded -pass file:./key -iter 10000
tailiga@raw:~$ cat coded
Salted__oohE} oogEo{okooLloonxCoooorTooC<\oo@Xotailiga@raw:~$
tailiga@raw:~$ openssl enc -rc2-ecb -d -in coded -out decoded -pass file:./key -iter 10000
tailiga@raw:~$ cat decoded
Khisamov Iskander Ravilevich</pre>
```

- 5. Таким же способом сгенерируйте матрицу симметричных ключей для 12 абонентов криптосети
 - имя файла ключа должно содержать номер серии (номер криптосети, тоже 9)
 - имя файла ключа должно содержать номера соответствующих абонентов

```
taiiiga@raw:/media/sf_Virtual/cryptonet/1$ openssl rand -base64 189 > 9.12
taiiiga@raw:/media/sf_Virtual/cryptonet/1$ openssl rand -base64 189 > 9.13
taiiiga@raw:/media/sf_Virtual/cryptonet/1$ openssl rand -base64 189 > 9.14
taiiiga@raw:/media/sf_Virtual/cryptonet/1$ openssl rand -base64 189 > 9.15
taiiiga@raw:/media/sf_Virtual/cryptonet/1$ openssl rand -base64 189 > 9.16
taiiiga@raw:/media/sf_Virtual/cryptonet/1$ openssl rand -base64 189 > 9.17
taiiiga@raw:/media/sf_Virtual/cryptonet/1$ openssl rand -base64 189 > 9.18
taiiiga@raw:/media/sf_Virtual/cryptonet/1$ openssl rand -base64 189 > 9.19
taiiiga@raw:/media/sf_Virtual/cryptonet/1$ openssl rand -base64 189 > 9.110
taiiiga@raw:/media/sf_Virtual/cryptonet/1$ openssl rand -base64 189 > 9.111
taiiiga@raw:/media/sf_Virtual/cryptonet/1$ openssl rand -base64 189 > 9.112
```

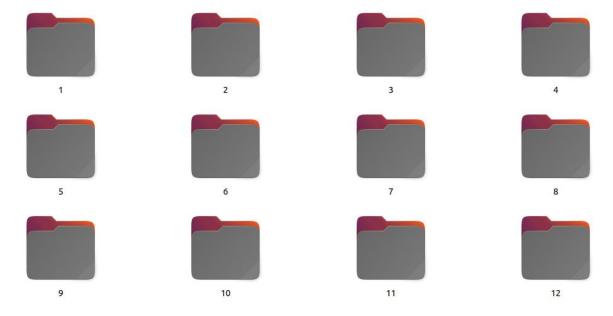
```
taiiiga@raw:/media/sf_Virtual/cryptonet/2$ openssl rand -base64 189 > 9.21
tailiga@raw:/media/sf_Virtual/cryptonet/2$ openssl rand -base64 189 > 9.23
taiiiga@raw:/media/sf_Virtual/cryptonet/2$ openssl rand -base64 189 > 9.24
tailiga@raw:/media/sf_Virtual/cryptonet/2$ openssl rand -base64 189 > 9.25
tailiga@raw:/media/sf_Virtual/cryptonet/2$ openssl rand -base64 189 > 9.26
tailiga@raw:/media/sf_Virtual/cryptonet/2$ openssl rand -base64 189 > 9.27
taitiga@raw:/media/sf_Virtual/cryptonet/2$ openssl rand -base64 189 > 9.28
taitiga@raw:/media/sf_Virtual/cryptonet/2$ openssl rand -base64 189 > 9.29
tailiga@raw:/media/sf_Virtual/cryptonet/2$ openssl rand -base64 189 > 9.210 tailiga@raw:/media/sf_Virtual/cryptonet/2$ openssl rand -base64 189 > 9.211
taiiiga@raw:/media/sf_Virtual/cryptonet/2$ openssl rand -base64 189 > 9.212
taiiiga@raw:/media/sf_Virtual/cryptonet/2$ cp ../1/9.12 9.21
taiiiga@raw:/media/sf_Virtual/cryptonet/3$ openssl rand -base64 189 > 9.34
tailiga@raw:/media/sf Virtual/cryptonet/3$ openssl rand -base64 189 > 9.35
tailiga@raw:/media/sf_Virtual/cryptonet/3$ openssl rand -base64 189 > 9.36 tailiga@raw:/media/sf_Virtual/cryptonet/3$ openssl rand -base64 189 > 9.37 tailiga@raw:/media/sf_Virtual/cryptonet/3$ openssl rand -base64 189 > 9.38
tailiga@raw:/media/sf_Virtual/cryptonet/3$ openssl rand -base64 189 > 9.39
tailiga@raw:/media/sf_Virtual/cryptonet/3$ openssl rand -base64 189 > 9.310
tailiga@raw:/media/sf_Virtual/cryptonet/3$ openssl rand -base64 189 > 9.311
taiiiga@raw:/media/sf_Virtual/cryptonet/3$ openssl rand -base64 189 > 9.312
tailiga@raw:/media/sf_Virtual/cryptonet/3$ cp ../1/9.13 9.31
taiiiga@raw:/media/sf_Virtual/cryptonet/3$ cp ../2/9.23 9.32
tailiga@raw:/media/sf_Virtual/cryptonet/4$ openssl rand -base64 189 > 9.45
tailiga@raw:/media/sf_Virtual/cryptonet/4$ openssl rand -base64 189 > 9.46
tailiga@raw:/media/sf_Virtual/cryptonet/4$ openssl rand -base64 189 > 9.47
tailiga@raw:/media/sf_Virtual/cryptonet/4$ openssl rand -base64 189 > 9.48
tailiga@raw:/media/sf_Virtual/cryptonet/4$ openssl rand -base64 189 > 9.49
tailiga@raw:/media/sf_Virtual/cryptonet/4$ openssl rand -base64 189 > 9.410
tailiga@raw:/media/sf_Virtual/cryptonet/4$ openssl rand -base64 189 > 9.411
tailiga@raw:/media/sf_Virtual/cryptonet/4$ openssl rand -base64 189 > 9.412
tailiga@raw:/media/sf_Virtual/cryptonet/4$ cp ../1/9.14 9.41
taiiiga@raw:/media/sf_Virtual/cryptonet/4$ cp ../2/9.24 9.42
tailiga@raw:/media/sf_Virtual/cryptonet/4$ cp ../3/9.34 9.43
tailiga@raw:/media/sf Virtual/cryptonet/5$ openssl rand -base64 189 > 9.56
tailiga@raw:/media/sf Virtual/cryptonet/5$ openssl rand -base64 189 > 9.57
tailiga@raw:/media/sf_Virtual/cryptonet/5$ openssl rand -base64 189 > 9.58
tailiga@raw:/media/sf_Virtual/cryptonet/5$ openssl rand -base64 189 > 9.59
tailiga@raw:/media/sf_Virtual/cryptonet/5$ openssl rand -base64 189 > 9.510
tailiga@raw:/media/sf_Virtual/cryptonet/5$ openssl rand -base64 189 > 9.511
tailiga@raw:/media/sf_Virtual/cryptonet/5$ openssl rand -base64 189 > 9.512
tailiga@raw:/media/sf_Virtual/cryptonet/5$ cp ../1/9.15 9.51
taiiiga@raw:/media/sf_Virtual/cryptonet/5$ cp ../2/9.25 9.52
tailiga@raw:/media/sf_Virtual/cryptonet/5$ cp ../3/9.35 9.53
tailiga@raw:/media/sf_Virtual/cryptonet/5$ cp ../4/9.45 9.54
```

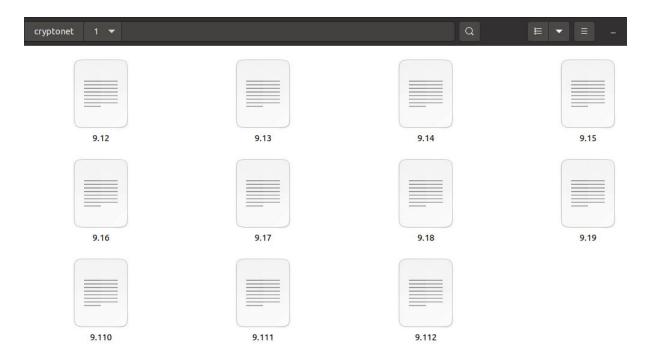
```
taiiiga@raw:/media/sf_Virtual/cryptonet/6$ openssl rand -base64 189 > 9.67 taiiiga@raw:/media/sf_Virtual/cryptonet/6$ openssl rand -base64 189 > 9.68
taiiiga@raw:/media/sf_Virtual/cryptonet/6$ openssl rand -base64 189 > 9.69
tailiga@raw:/media/sf_Virtual/cryptonet/6$ openssl rand -base64 189 > 9.610
taiiiga@raw:/media/sf_Virtual/cryptonet/6$ openssl rand -base64 189 > 9.611
tailiga@raw:/media/sf_Virtual/cryptonet/6$ openssl rand -base64 189 > 9.612
tailiga@raw:/media/sf_Virtual/cryptonet/6$ cp ../1/9.16 9.61
tailiga@raw:/media/sf_Virtual/cryptonet/6$ cp ../2/9.26 9.62
taiiiga@raw:/media/sf_Virtual/cryptonet/6$ cp ../3/9.36 9.63 taiiiga@raw:/media/sf_Virtual/cryptonet/6$ cp ../4/9.46 9.64
tailiga@raw:/media/sf_Virtual/cryptonet/6$ cp ../5/9.56 9.65
tailiga@raw:/media/sf Virtual/cryptonet/7$ openssl rand -base64 189 > 9.78
tailiga@raw:/media/sf_Virtual/cryptonet/7$ openssl rand -base64 189 > 9.79
tailiga@raw:/media/sf_Virtual/cryptonet/7$ openssl rand -base64 189 > 9.710
tailiga@raw:/media/sf_Virtual/cryptonet/7$ openssl rand -base64 189 > 9.711
tailiga@raw:/media/sf_Virtual/cryptonet/7$ openssl rand -base64 189 > 9.712
taiiiga@raw:/media/sf_Virtual/cryptonet/7$ cp ../1/9.17 9.71
taiiiga@raw:/media/sf_Virtual/cryptonet/7$ cp ../2/9.27 9.72
taiiiga@raw:/media/sf_Virtual/cryptonet/7$ cp ../3/9.37 9.73
tailiga@raw:/media/sf_Virtual/cryptonet/7$ cp ../4/9.47 9.74
tailiga@raw:/media/sf_Virtual/cryptonet/7$ cp ../5/9.57 9.75
tailiga@raw:/media/sf_Virtual/cryptonet/7$ cp ../6/9.67 9.76
tailiga@raw:/media/sf_Virtual/cryptonet/8$ openssl rand -base64 189 > 9.89
tailiga@raw:/media/sf_Virtual/cryptonet/8$ openssl rand -base64 189 > 9.810
tailiga@raw:/media/sf_Virtual/cryptonet/8$ openssl rand -base64 189 > 9.811
tailiga@raw:/media/sf_Virtual/cryptonet/8$ openssl rand -base64 189 > 9.812
tailiga@raw:/media/sf_Virtual/cryptonet/8$ cp ../1/9.18 9.81
tailiga@raw:/media/sf_Virtual/cryptonet/8$ cp ../2/9.28 9.82
tailiga@raw:/media/sf_Virtual/cryptonet/8$ cp ../3/9.38 9.83
tailiga@raw:/media/sf Virtual/cryptonet/8$ cp ../4/9.48 9.84
tailiga@raw:/media/sf_Virtual/cryptonet/8$ cp ../5/9.58 9.85
tailiga@raw:/media/sf_Virtual/cryptonet/8$ cp ../6/9.68 9.86
tailiga@raw:/media/sf_Virtual/cryptonet/8$ cp ../7/9.78 9.87
tailiga@raw:/media/sf_Virtual/cryptonet/9$ openssl rand -base64 189 > 9.910
taitiga@raw:/media/sf_Virtual/cryptonet/9$ openssl rand -base64 189 > 9.911
tailiga@raw:/media/sf_Virtual/cryptonet/9$ openssl rand -base64 189 > 9.912 tailiga@raw:/media/sf_Virtual/cryptonet/9$ cp ../1/9.19 9.91 tailiga@raw:/media/sf_Virtual/cryptonet/9$ cp ../2/9.29 9.92
taiiiga@raw:/media/sf_Virtual/cryptonet/9$ cp ../3/9.39 9.93
tailiga@raw:/media/sf_Virtual/cryptonet/9$ cp ../4/9.49 9.94
tailiga@raw:/media/sf_Virtual/cryptonet/9$ cp ../5/9.59 9.95
tailiga@raw:/media/sf_Virtual/cryptonet/9$ cp ../6/9.69 9.96 tailiga@raw:/media/sf_Virtual/cryptonet/9$ cp ../7/9.79 9.97 tailiga@raw:/media/sf_Virtual/cryptonet/9$ cp ../8/9.89 9.98
tailiga@raw:/media/sf_Virtual/cryptonet/10$ openssl rand -base64 189 > 9.1011
tailiga@raw:/media/sf_Virtual/cryptonet/10$ openssl rand -base64 189 > 9.1012
tailiga@raw:/media/sf_Virtual/cryptonet/10$ cp ../1/9.110 9.101
tailiga@raw:/media/sf_Virtual/cryptonet/10$ cp ../2/9.210 9.102
tailiga@raw:/media/sf_Virtual/cryptonet/10$ cp ../3/9.310 9.103
tailiga@raw:/media/sf_Virtual/cryptonet/10$ cp ../4/9.410 9.104
tailiga@raw:/media/sf_Virtual/cryptonet/10$ cp ../5/9.510 9.105
taitiga@raw:/media/sf_Virtual/cryptonet/10$ cp ../5/9.510 9.105
taiiiga@raw:/media/sf_Virtual/cryptonet/10$ cp ../6/9.610 9.106
tailiga@raw:/media/sf_Virtual/cryptonet/10$ cp ../7/9.710 9.107
taiiiga@raw:/media/sf_Virtual/cryptonet/10$ cp ../8/9.810 9.108
taiiiga@raw:/media/sf_Virtual/cryptonet/10$ cp ../9/9.910 9.109
```

```
tailiga@raw:/media/sf_Virtual/cryptonet/11$ openssl rand -base64 189 > 9.1112
tailiga@raw:/media/sf_Virtual/cryptonet/11$ cp ../1/9.111 9.111
tailiga@raw:/media/sf_Virtual/cryptonet/11$ cp ../2/9.211 9.112
tailiga@raw:/media/sf_Virtual/cryptonet/11$ cp ../3/9.311 9.113
tailiga@raw:/media/sf_Virtual/cryptonet/11$ cp ../4/9.411 9.114
tailiga@raw:/media/sf_Virtual/cryptonet/11$ cp ../5/9.511 9.115
tailiga@raw:/media/sf_Virtual/cryptonet/11$ cp ../6/9.611 9.116
tailiga@raw:/media/sf_Virtual/cryptonet/11$ cp ../7/9.711 9.117
tailiga@raw:/media/sf_Virtual/cryptonet/11$ cp ../8/9.811 9.118
tailiga@raw:/media/sf_Virtual/cryptonet/11$ cp ../9/9.911 9.119
tailiga@raw:/media/sf_Virtual/cryptonet/11$ cp ../9/9.1011 9.1110
```

```
taiiiga@raw:/media/sf_Virtual/cryptonet/12$ cp ../1/9.112 9.121 taiiiga@raw:/media/sf_Virtual/cryptonet/12$ cp ../2/9.212 9.122 taiiiga@raw:/media/sf_Virtual/cryptonet/12$ cp ../3/9.312 9.123 taiiiga@raw:/media/sf_Virtual/cryptonet/12$ cp ../4/9.412 9.124 taiiiga@raw:/media/sf_Virtual/cryptonet/12$ cp ../5/9.512 9.125 taiiiga@raw:/media/sf_Virtual/cryptonet/12$ cp ../6/9.612 9.126 taiiiga@raw:/media/sf_Virtual/cryptonet/12$ cp ../7/9.712 9.127 taiiiga@raw:/media/sf_Virtual/cryptonet/12$ cp ../8/9.812 9.128 taiiiga@raw:/media/sf_Virtual/cryptonet/12$ cp ../9/9.912 9.129 taiiiga@raw:/media/sf_Virtual/cryptonet/12$ cp ../10/9.1012 9.1210 taiiiga@raw:/media/sf_Virtual/cryptonet/12$ cp ../11/9.1112 9.1211
```

6. создайте ключевой носитель для каждого абонента криптосети (в виде отдельного каталога)





7. продемонстрируйте защищенный обмен между этими абонентами

- 8. в графическом редакторе создайте файл (1000х1000пк) в формате ВМР с надписью "ИМЯ ФАМИЛИЯ", жирным и с максимальным размером шрифта
- 9. скопируйте файл на виртуальную машину
- 10. зашифруйте файл методами ЕСВ и СВС 3-мя различными алгоритмами

```
tallga@raw:/media/sf_Virtual$ openssl enc -des-cbc -in fullname.bmp -out fullname-des-cbc.bmp -iter 1000
enter des-cbc encryption password:
Verifying - enter des-cbc encryption password:
tallga@raw:/media/sf_Virtual$ openssl enc -des-cbc -d -in fullname-des-cbc.bmp -out fullname-decoded-des-cbc.bmp -iter 1000
enter des-cbc decryption password:
tallga@raw:/media/sr_Virtual$ dd if=fullname.bmp of=fullname-des-cbc.bmp bs=1 count=54 conv=notrunc
54+0 records in
54+0 records out
54 bytes copied, 0,0754329 s, 0,7 kB/s

tallga@raw:/media/sf_Virtual$ openssl enc -rc2-cbc -in fullname.bmp -out fullname-rc2-cbc.bmp -iter 1000
enter rc2-cbc encryption password:
Verifying - enter rc2-cbc encryption password:
tallga@raw:/media/sf_Virtual$ openssl enc -rc2-cbc -d -in fullname-rc2-cbc.bmp -out fullname-decoded-rc2-cbc.bmp -iter 1000
enter rc2-cbc decryption password:
tallga@raw:/media/sf_Virtual$ dd if=fullname.bmp of=fullname-rc2-cbc.bmp bs=1 count=54 conv=notrunc
54+0 records in
54+0 records in
54+0 records out
54 bytes copied, 0,0601589 s, 0,9 kB/s
```

```
tailiga@raw:/medla/sf_Virtual$ openssl enc -aes-256-cbc -in fullname.bmp -out fullname-aes-256-cbc.bmp -iter 1000
enter aes-256-cbc encryption password:
Verifying - enter aes-256-cbc encryption password:
tailiga@raw:/medla/sf_Virtual$ openssl enc -aes-256-cbc -d -in fullname-aes-256-cbc.bmp -out fullname-decoded-aes-256-cbc.bmp -iter 1000
enter aes-256-cbc decryption password:
tailiga@raw:/medla/sf_Virtual$ dd if=fullname.bmp of=fullname-aes-256-cbc.bmp bs=1 count=54 conv=notrunc
tailiga@raw:/medla/sf_Virtual$ dd lf=fu
54+0 records in
54+0 records out
54 bytes copied, 0,0654042 s, 0,8 kB/s
                                                   $ openssl enc -aes-256-ecb -in fullname.bmp -out fullname-aes-256-ecb.bmp -iter 1000
tailiga@raw:/media/sr_Virtuals openssi enc -aes-256-ecb -in fullname.bmp -out fullname-aes-256-ecb.bmp -iter 1000 enter aes-256-ecb encryption password:

Verifying - enter aes-256-ecb encryption password:

tailiga@raw:/media/sr_Virtuals openssi enc -aes-256-ecb -d -in fullname-aes-256-ecb.bmp -out fullname-decoded-aes-256-ecb.bmp -iter 1000 enter aes-256-ecb decryption password:

tailiga@raw:/media/sf_Virtuals dd if=fullname.bmp of=fullname-aes-256-ecb.bmp bs=1 count=54 conv=notrunc
54+0 records in
54+0 records out
 54 bytes copied, 0,0842257 s, 0,6 kB/s
                                                        al$ openssl enc -rc2-ecb -in fullname.bmp -out fullname-rc2-ecb.bmp -iter 1000
talliga@raw: recursion password:
enter rc2-ecb encryption password:
Verifying - enter rc2-ecb encryption password:
talliga@raw:/media/sf_Virtual$ openssl enc -rc2-ecb -d -in fullname-rc2-ecb.bmp -out fullname-decoded-rc2-ecb.bmp -iter 1000
                                                      ual$ dd if=fullname.bmp of=fullname-rc2-ecb.bmp bs=1 count=54 conv=notrunc
tailiga@raw:/med
54+0 records in
54+0 records out
54 bytes copied, 0,0643396 s, 0,8 kB/s
                                                         s openssl enc -des-ecb -in fullname.bmp -out fullname-des-ecb.bmp -iter 1000
tatitgadraw: results:

enter des-ecb encryption password:

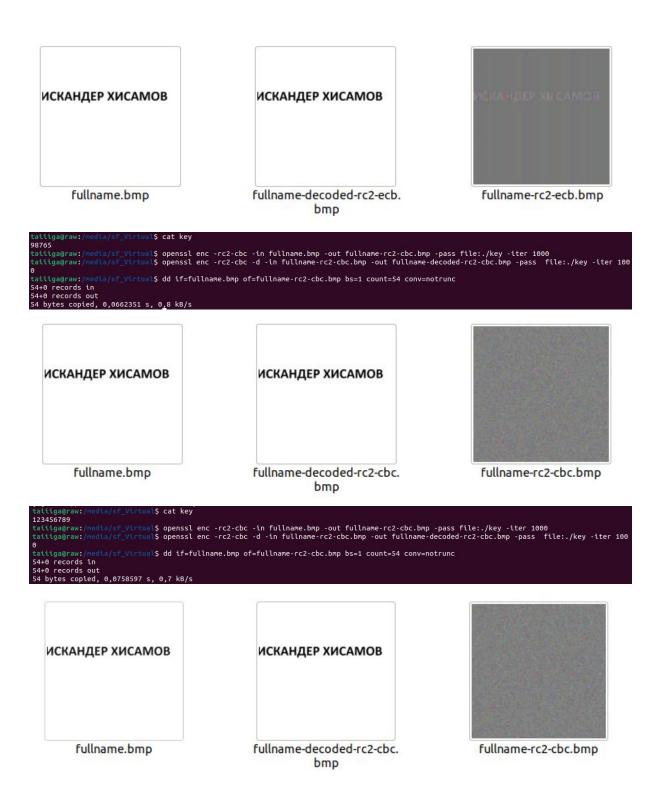
Verifying - enter des-ecb encryption password:

tatitgagraw:/media/sf_Virtual$ openssl enc -des-ecb -d -in fullname-des-ecb.bmp -out fullname-decoded-des-ecb.bmp -iter 1000
taltiga@raw:/media/sf_virtual$ dd if=fullname.bmp of=fullname-des-ecb.bmp bs=1 count=54 conv=notrunc
 taliiga@raw:/med
54+0 records in
54+0 records out
54 bytes copied, 0,0791612 s, 0,7 kB/s
```

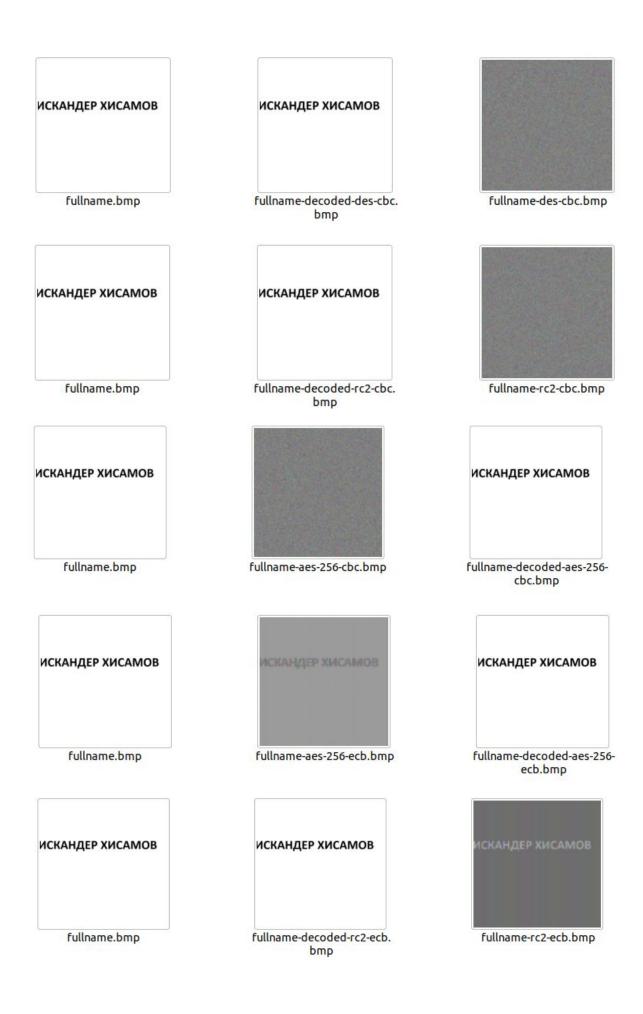
11. зашифруйте файл методами ЕСВ и СВС, одним алгоритмом, но различными 2-мя ключами



```
tailiga@raw:/media/sf_Virtual$ cat key
98765
tailiga@raw:/media/sf_Virtual$ openssl enc -rc2-ecb -in fullname.bmp -out fullname-rc2-ecb.bmp -pass file:./key -iter 1000
tailiga@raw:/media/sf_Virtual$ openssl enc -rc2-ecb -d -in fullname-rc2-ecb.bmp -out fullname-decoded-rc2-ecb.bmp -pass file:./key -iter 100
0
tailiga@raw:/media/sf_Virtual$ dd if=fullname.bmp of=fullname-rc2-ecb.bmp bs=1 count=54 conv=notrunc
54+0 records in
54+0 records out
54 bytes copied, 0,0817524 s, 0,7 kB/s
```



12. просмотрите и сравните изображения, до просмотра необходимо заменить заголовки в зашифрованных файлах: dd if=image.bmp of=image-ecb.bmp bs=1 count=54 conv=notrunc









fullname-des-ecb.bmp

13. возьмите свою фотографию в разрешении (1000х1000), проделайте тоже самое для одного алгоритма шифрования

```
123456789
tailiga@raw:/media/sf_Virtual$ openssl enc -rc2-cbc -in me.bmp -out me-coded1.bmp -pass file:./key -iter 1000 tailiga@raw:/media/sf_Virtual$ openssl enc -rc2-cbc -d -in me-coded1.bmp -out me-decoded1.bmp -pass file:./key -iter 1000 tailiga@raw:/media/sf_Virtual$ dd if=me.bmp of=me-coded1.bmp bs=1 count=54 conv=notrunc 54+0 records in
54 bytes copied, 0,0855513 s, 0,6 kB/s
```







me-coded1.bmp



me-decoded1.bmp

```
98765
98/05
taliiga@raw:/media/sf_Virtual$ openssl enc -rc2-cbc -in me.bmp -out me-coded2.bmp -pass file:./key -iter 1000
taliiga@raw:/media/sf_Virtual$ openssl enc -rc2-cbc -d -in me-coded2.bmp -out me-decoded2.bmp -pass file:./key -iter 1000
taliiga@raw:/media/sf_Virtual$ dd if=me.bmp of=me-coded2.bmp bs=1 count=54 conv=notrunc
54+0 records in
54+0 records out
  54 bytes copied, 0,0591719 s, 0<u>,</u>9 kB/s
```



me.bmp



me-coded2.bmp

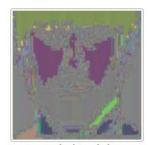


me-decoded2.bmp

```
Virtual$ openssl enc -rc2-ecb -in me.bmp -out me-coded1-ecb.bmp -pass file:./key -iter 1000
Virtual$ openssl enc -rc2-ecb -d -in me-coded1-ecb.bmp -out me-decoded1-ecb.bmp -pass file:./key -iter 1000
/sf_Virtudd if=me.bmp of=me-coded1-ecb.bmp bs=1 count=54 conv=notrunc
^[[Ataiiiga@raw:
54+0 records in
54+0 records out
54 bytes copied, 0,0780235 s, 0,7 kB/s
```



me.bmp



me-coded1-ecb.bmp



me-decoded1-ecb.bmp

tailiga@raw:/media/sf_Virtual\$ cat key
54321
tailiga@raw:/media/sf_Virtual\$ openssl enc -rc2-ecb -in me.bmp -out me-coded2-ecb.bmp -pass file:./key -iter 1000
tailiga@raw:/media/sf_Virtual\$ openssl enc -rc2-ecb -d -in me-coded2-ecb.bmp -out me-decoded2-ecb.bmp -pass file:./key -iter 1000
tailiga@raw:/media/sf_Virtual\$ dd if=me.bmp of=me-coded2-ecb.bmp bs=1 count=54 conv=notrunc
54+0 records in
54+0 records out
54 bytes copled, 0,0790468 s, 0,7 kB/s



me.bmp



me-coded2-ecb.bmp



me-decoded2-ecb.bmp