

PART2

```
nancy@DESKTOP-902BIGV:/mnt/c/Linux_make/Application$ make all
mkdir -p /mnt/c/Linux_make/Application/out/gen /mnt/c/Linux_make/Application/out/libs
gcc -c ../Application/app.c -I../Modules/caesar_cipher/inc -I../Modules/xor_cipher/inc -o /mnt/c/Linux_make/Application/out/gen/app.o
make -f caesar_cipher.mk -C ../Modules/caesar_cipher LIB_DIR=/mnt/c/Linux_make/Application/out/libs GEN_DIR=/mnt/c/Linux_make/Application/out/gen
make[1]: Entering directory '/mnt/c/Linux_make/Modules/caesar_cipher'
gcc -c src/caesar_encrypt.c -I./inc -o /mnt/c/Linux_make/Application/out/gen/caesar_encrypt.o
gcc -c src/caesar_decrypt.c -I./inc -o /mnt/c/Linux_make/Application/out/gen/caesar_decrypt.o
ar -cr /mnt/c/Linux_make/Application/out/libs/libcaesar.a /mnt/c/Linux_make/Application/out/gen/caesar_encrypt.o /mnt/c/Linux_make/Application/out/gen/caesar_decrypt.o
make[1]: Leaving directory '/mnt/c/Linux_make/Modules/caesar_cipher'
make -f xor_cipher.mk -C ../Modules/xor_cipher LIB_DIR=/mnt/c/Linux_make/Application/out/libs GEN_DIR=/mnt/c/Linux_make/Application/out/gen
make[1]: Entering directory '/mnt/c/Linux_make/Modules/xor_cipher'
gcc -c src/xor_encrypt.c -I./inc -fPIC -o /mnt/c/Linux_make/Application/out/gen/xor_encrypt.o
gcc -c src/xor_decrypt.c -I./inc -fPIC -o /mnt/c/Linux_make/Application/out/gen/xor_decrypt.o
gcc /mnt/c/Linux_make/Application/out/gen/xor_encrypt.o /mnt/c/Linux_make/Application/out/gen/xor_decrypt.o -o /mnt/c/Linux_make/Application/out/libs/libxor.so -shared
make[1]: Leaving directory '/mnt/c/Linux_make/Modules/xor_cipher'
gcc /mnt/c/Linux_make/Application/out/gen/app.o -L/mnt/c/Linux_make/Application/out/libs -L/mnt/c/Linux_make/Application/out/libs -lcaesar -lxor -Wl,-rpath,/mnt/c/Linux_make/Application/out/libs -o ../Application/output
nancy@DESKTOP-902BIGV:/mnt/c/Linux_make/Application$ ./output 3 K "aaa"
text encrypted with caesar: "ddd"
text decrypted with caesar: "aaa"
text encrypted with xor: *****
text decrypted with xor: "aaa"
```

Cmake

```
nancy@DESKTOP-902BIGV:/mnt/c/Linux_Cmake/Application$ mkdir build
nancy@DESKTOP-902BIGV:/mnt/c/Linux_Cmake/Application$ cd build
nancy@DESKTOP-902BIGV:/mnt/c/Linux_Cmake/Application/build$ cmake ..
-- The C compiler identification is GNU 13.3.0
-- Detecting C compiler ABI info
-- Detecting C compiler ABI info - done
-- Check for working C compiler: /usr/bin/cc - skipped
-- Detecting C compile features
-- Detecting C compile features - done
-- Configuring done (3.6s)
-- Generating done (0.6s)
-- Build files have been written to: /mnt/c/Linux_Cmake/Application/build
```

```
nancy@DESKTOP-902BIGV:/mnt/c/Linux_Cmake/Application/build$ make
[ 12%] Building C object xor_build/CMakeFiles/xor.dir/src/xor_decrypt.c.o
[ 25%] Building C object xor_build/CMakeFiles/xor.dir/src/xor_encrypt.c.o
[ 37%] Linking C shared library libxor.so
[ 37%] Built target xor
[ 50%] Building C object caesar_build/CMakeFiles/caesar.dir/src/caesar_decrypt.c.o
[ 62%] Building C object caesar_build/CMakeFiles/caesar.dir/src/caesar_encrypt.c.o
[ 75%] Linking C static library libcaesar.a
[ 75%] Built target caesar
[ 87%] Building C object CMakeFiles/output.dir/app.c.o
[100%] Linking C executable output
[100%] Built target output
```

```
nancy@DESKTOP-902BIGV:/mnt/c/Linux_Cmake/Application/build$ ./output 3 K "aaa"
text encrypted with caesar: ddd
text decrypted with caesar: aaa
text encrypted with xor: ***
text decrypted with xor: aaa
```