

Practice number two

Implementing simplified des and permutation encryption.

Author's Note

This version was made on March 24, 2020 for the Classroom presentation, if you want the updated version (possibly, more operation modes supported), please update the repo with:

```
git pull --rebase
```

If you has made changes in the files, first reset the repository before updating

```
git reset --hard
```

Requirements

- Linux operative system.
- GCC 8.1 compiler (or higher), or other compiler with C++17 features and `std::filesystem` support. See this [instructions](#) if you want to install GCC 9.2.

Usage

Each folder program has its own `README.md` file with instructions and usage :fire:. -[Permutation README.md](#) - [SDES README.md](#)

Installing GCC 9.2 on Ubuntu and variants or Debian base Linux

- Install GCC compile packages

```
sudo apt install build-essential
```

- Add the repository with GCC 9.2

```
sudo add-apt-repository ppa:ubuntu-toolchain-r/test
```

- Install GCC 9.2 and G++ 9.2

```
sudo apt install gcc-9 g++-9
```

- And make them default ones:

```
sudo update-alternatives --install /usr/bin/gcc gcc /usr/bin/gcc-9 60 --slave /usr/bin/
```

Just to check:

```
g++ --version
```

Possible output:

```
g++ (Ubuntu 9.2.1-17ubuntu1~18.04.1) 9.2.1 20191102
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This is free software; see the source for copying conditions.  There is NO
warranty; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
```

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Cheers, Joel H. :blush: