NCurses Installation

Windows

We suppose MinGW is already installed in the system.

1. Open MinGW Installation Manager.

2. Look for the following packages and mark the checkbox:
   a. mingw32-libncurses (dll)
   b. mingw32-libcurses   (dev)
   c. mingw32-libpdcurses (dll)
   d. mingw32-libpdcurses (dev)

3. In the context menú click on Installation → Apply Changes.

Ubuntu Linux

1. Open a terminal and execute the following command:

   ```
   sudo apt-get install libncurses5-dev libncursesw5-dev
   ```

macOS

NCurses is already installed on macOS if you installed XCode and the command line tools, so you don't have to do anything else in that case. It's always possible to install other versions of the library with the following instructions:

1. Open a terminal and install brew with the following command:
   ```
   /usr/bin/ruby -e "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/master/install)"
   ```

2. Execute the following command on the terminal to install ncurses:
   ```
   brew install ncurses
   ```

NCurses usage with CLion and cmake

In the clion project open the CMakeList.txt file and add the lines in bold:

```cmake
find_package(Curses REQUIRED)
include_directories(${CURSES_INCLUDE_DIR})
add_executable(PROJECT_NAME main.cpp)
target_link_libraries(PROJECT_NAME ${CURSES_LIBRARIES})
```

NB: PROJECT_NAME should be replaced with the name of your project.

We can test ncurses with a simple hello world code:

```cpp
#include <ncurses.h>

int main()
{
  initscr();       /* Start curses mode        */
  printw("Hello World !!!"); /* Print Hello World        */
  refresh();       /* Print it on to the real screen */
  getch();         /* Wait for user input */
  endwin();        /* End curses mode        */

  return 0;
}
```

NB: if you don't see anything in the CLion terminal or if you get an error related to visualization on the terminal, open the executable program manually in the subfolder "cmake-build-debug" of your project directory.