How to compile `SDL_bgi` programs with CodeBlocks

These instructions show how to compile an `SDL_bgi` program using CodeBlocks; we will use `fern.c`, provided in the `demo/` directory.

Let's assume that CodeBlocks is installed in `C:\CodeBlocks`, and that the SDL2 development libraries for MinGW are installed in `C:\SDL2-*`. If you installed the software in different directories, change the following instructions accordingly.

The procedure was tested with codeblocks-20.03mingw and SDL2-devel-2.30.2-mingw.tar.gz.

Links:

http://codeblocks.org/

https://github.com/libsdl-org/SDL

Installing `SDL_bgi`

- copy `bin/CodeBlocks/SDL_bgi.dll` to
  `C:\CodeBlocks\MinGW\bin`

- copy `SDL_bgi.h` to
  `C:\SDL2-*\x86_64-w64-mingw32\include\SDL2`

- copy `graphics.h` to
  `C:\SDL2-*\x86_64-w64-mingw32\include`

How to compile

- start CodeBlocks and click on `Create a new project`

- click on `SDL2 project`, then proceed

- in the wizard, provide a project name (`fern`), pick a folder to store the project, then click on `Next>`

- in the next window (SDL2 location), pick `C:\SDL2-*\x86_64-w64-mingw32`, then click on `Next>`

- in the next window, uncheck `Create "Debug" configuration`, check `Create "Release" configuration`, then click on `Finish`

- in the panel `Projects/Workspace/fern/Sources`, delete `main.cpp` (Remove file from project)

- in the panel `Projects/Workspace/fern`: right click, click on `Add files...`, pick `fern.c`, then click on `Ok`

- from the menu `Project/Build options...` select the `Search  directories` tab, click on `Add`, pick the directory

`C:\SDL2-*\x86_64-w64-mingw32\include`, then select `No` when asked to `Keep this as a relative path?`. Click on `Ok`

- from the menu `Project/Build options...` select the `Linker    settings` tab, click on **Add**, pick the files
  `C:\CodeBlocks\MinGW\bin\SDL_bgi.dll` and
  `C:\SDL2-*\x86_64-w64-mingw32\bin\SDL2.dll`, then select `No` when asked to `Keep this as a relative path?`. Click on `Ok`

- from the menu `Build`, select `Build`. The executable `fern.exe` will be compiled.

- if you don't need to set environment variables, close the `Global variable editor` window

- run `fern.exe`.

Note 1: if you release your compiled program, you must also provide `SDL2.dll` and `SDL_bgi.dll` in the same directory.

Note 2: if your code uses functions provided by `stdio.h` (e.g. `printf()`, `scanf()`, etc.) you must also run a terminal. From the menu `"Project/Set program's arguments...`, check the box `Run host in terminal`.