DOWNLOADING GTEST USING CMAKE/BASH/ in windows

Procedures

- 1. Download and install CMake binaries (https://cmake.org/download/)
 - Choose to either add Cmake to the path for all users or just your account.
- 2. (Windows 10) Make sure you are using MinGW 64 not 32!
 - Get it from http://mingw-w64.org/doku.php/download/mingw-builds
 - Add the installation directory to your path
 - (Optional) Create an alias/link for make (e.g. in Git Bash run ln mingw32-make.exe make)
 - ^ For the optional step make sure you have Git installed then launch Git Bash then change directory to

where mingw32-make.exe is before running that command: https://git-scm.com/downloads_

3. Download the latest version (currently 1.10) of gtest from https://github.com/google/googletest/releases and unpack it.

Note: It is important to add cmake and mingw64 paths to the environment variables paths

Open a command terminal in the extracted directory (or cd into it).

Execute following commands:

- NOTE: If you have MinGW or CMake installed in your C:/ProgramFiles directory the
 following cmake command might not work. To solve this you can run the MinGW command
 prompt as administrator, by first right clicking on it and then clicking "run as administrator".
 As C:/ProgramFiles is not in the users folder, it might not know which users have
 permissions and hence we get this error.
- cd xxx/gtest-x.x.x (if not already there)
- cmake -G "MinGW Makefiles"
- make
- (Windows 10) If you get an error about crtdbg.h missing, you are using MinGW32 not MinGW64. Upgrade using http://mingww64.org/doku.php/download/mingw-builds
- o If make doesn't work, try mingw32-make.exe instead. g++ $^{\circ}$
- 4. Copy the following two folders into your MinGW include directory (x86_64-w64-mingw32/include):
 - googletest/include/gtest
 - googlemock/include/gmock
- 5. Copy the library files in lib into your MinGW lib folder
 - There should be four libs -- two for gtest and two for gmocked
 - Put the libs in <Install Dir>\x86 64-w64-mingw32\lib