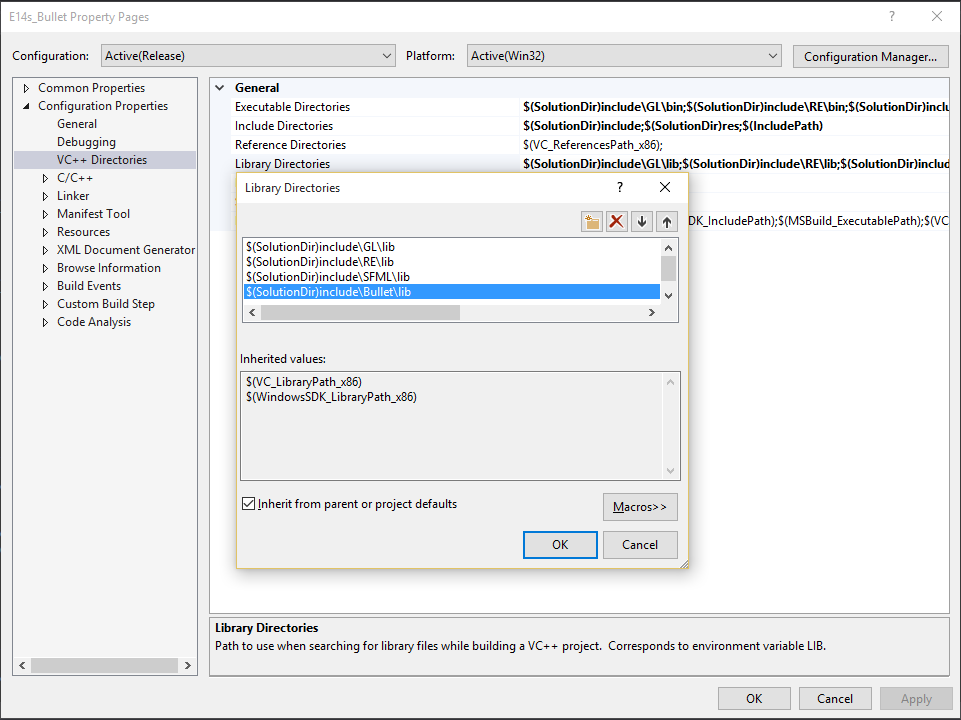
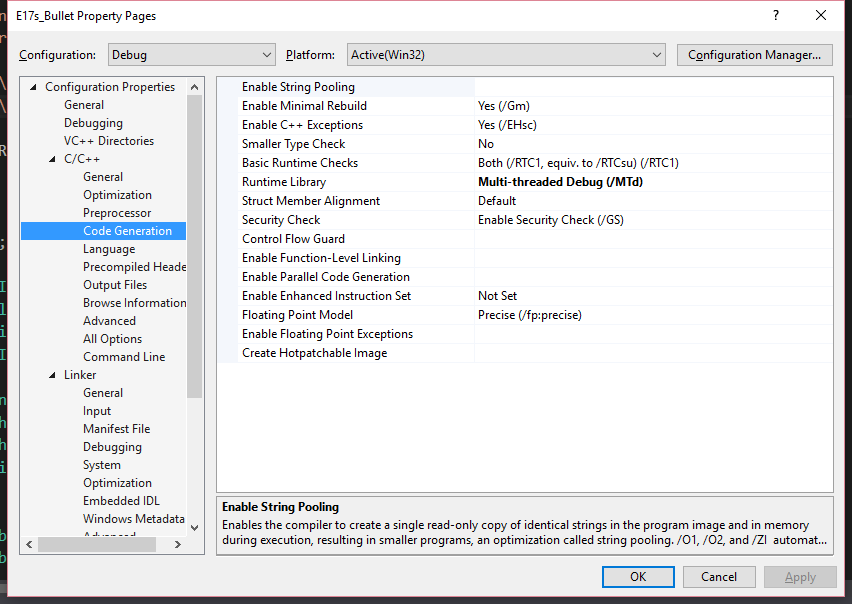
|  |  |  |
| --- | --- | --- |
|  | **Rochester Institute of Technology**  **Golisano College of Computing and Information Sciences**  **School of Interactive Games and Media**  **2145 Golisano Hall – (585) 475-7680** |  |

**Data Structures & Algorithms for Games & Simulation II**

**IGME 309, 2016-17 Spring**

**E15: Bullet Configuration**

1. Use an existing solution or create one following previous ICEs, this example is best based on the Sandbox
2. Unzip the provided Bullet library and add it to the include folder of your project
3. In the project properties for all configurations add $(SolutionDir)include\Bullet\lib in the Library Directories. For both the Debug and the Release:
4. For Debug mode under C/C+/>Code Generation>security Check, set the runtime library to Multi-threaded Debug (/Mtd) and for release to Multi-threaded (/MT)



1. Under Linker>Input>Additional Dependencies add

For Debug:

BulletCollision\_vs2010\_Debug.lib

BulletDynamics\_vs2010\_Debug.lib

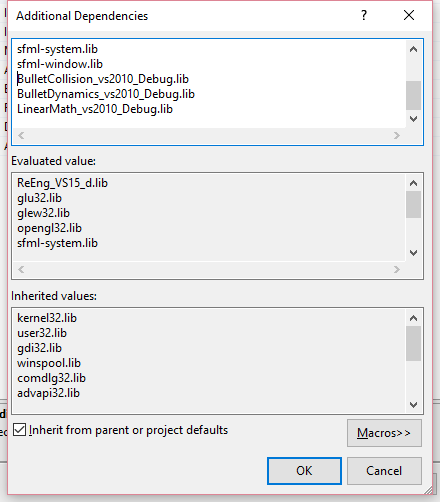
LinearMath\_vs2010\_Debug.lib

For Release:

BulletCollision\_vs2010.lib

BulletDynamics\_vs2010.lib

LinearMath\_vs2010.lib



1. Copy/Ovewrite the AppClass.h and AppClas.cpp with the provided files and compile your code under Release mode (this should work under Debug mode as well but there is an unforeseen error with the library configuration so do not worry about it)
2. You should see a bunch of cubes falling from the sky.

Your in-class exercise consists in, making all the changes so your program compiles and runs, and then commenting the code you see.

Answer the following:

1. What is the real use of the black plane?
   1. Just to have something that looks like a floor. It doesn’t do anything of significance.
2. What is a broadphase in Bullet?
   1. It is an algorithm to determine the colliding pairs of objects in the objects to make collision detection faster.
3. What is the btBoxShape used for in Bullet?
   1. It is just a primitive in the shape of a box that can have inertia and collision applied to it.

Submit individually to the dropbox (this is not a group ICE)