Note:

I took help from the liveoverflow youtube channel.

Project 1

- I initially tried flying high above the ground to avoid the bears, but this caused me to cross the boundary and end the mission.
- Next, I climbed a tree, thinking it would be safe. However, angry bears appeared and shot me with AK rifles when there were about 1:30 minutes left on the timer.
- When I experimented with the teleport (tp) command, I discovered that bears couldn't shoot below the ground. So, I teleported to the chest, started the timer, then used the "under" command to go underground and wait for the time to run out. The "under" command sets a flag and moves the player to a position 150 units below the current level. I applied this at every world Tick, but this caused the player to vibrate a lot. The player would fall due to gravity at each Tick, and the position reset caused occasional out-of-bounds issues. To solve this, I set the player's velocity to (0, 0, 0) and waited for 5 minutes.
- After logging out and back in, I returned to the chest and claimed my flag.



Project 2

- From the hint in the problem statement, I inferred that the eggs are objects in the set ((*ClientWorld)GameWorld).m_actors, which contains IActors. I cast their m_object to Actor to retrieve the actors in the World.
- Upon inspection, I noticed that none of them had a display name, but they did have a m_blueprintName, which helped me identify the eggs.
- I then used a vector to store the locations of the eggs and wrote a script that allowed me to teleport to an egg's location by typing egg <egg-number> in the chat box.
- Using this method, I was able to find nine eggs. However, I discovered one more
 actor named BallmerPeakEgg, but no egg was present at that location. There
 was another actor called BallmerPeakPoster, which turned out to be an xkcd
 comic. When I decompiled the code, I saw that CanBeDamaged() always
 returns true. So, I purchased a CowBoyCoder and shot the Poster. This caused
 the final egg, the tenth one, to appear.

