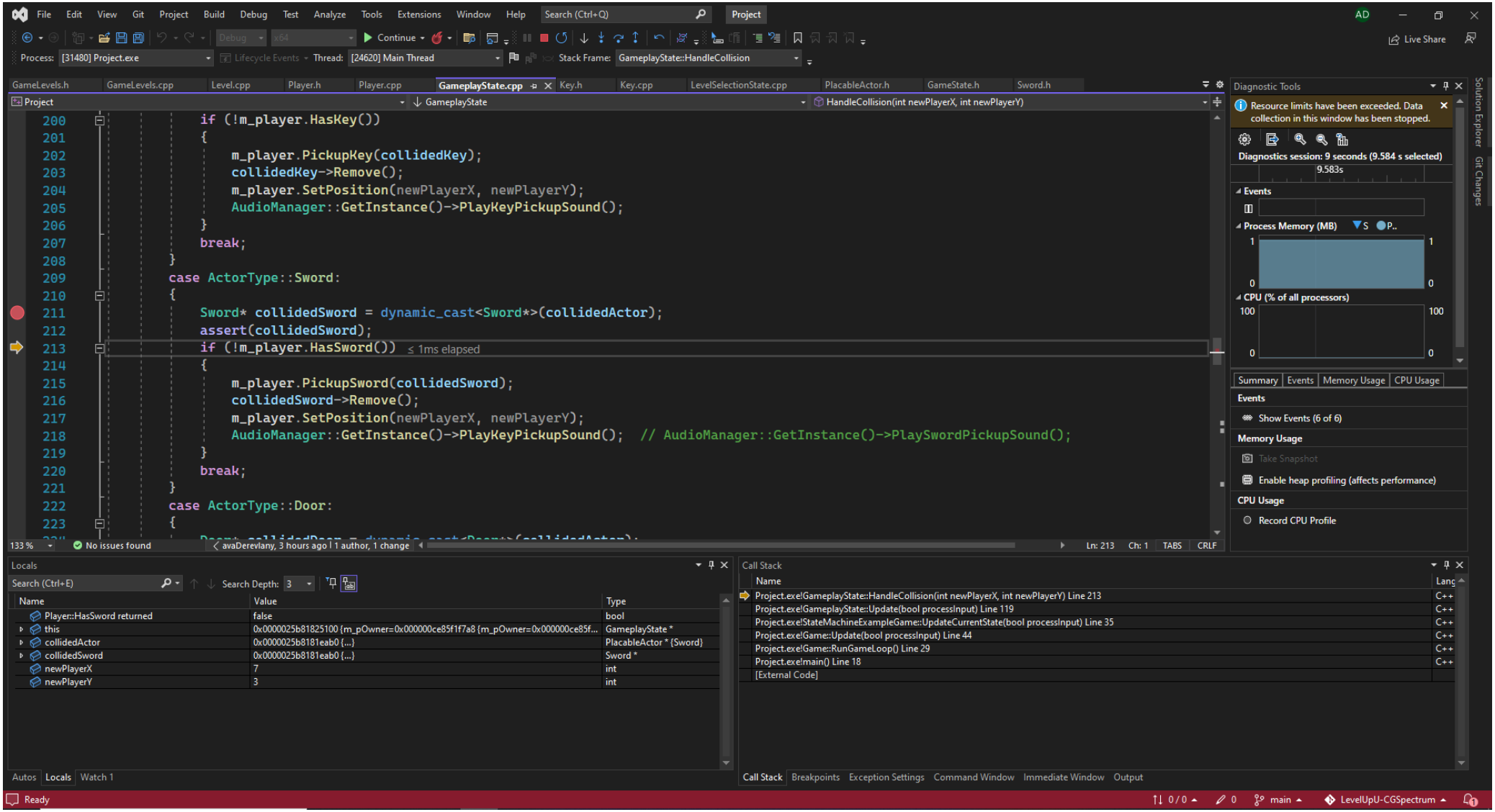
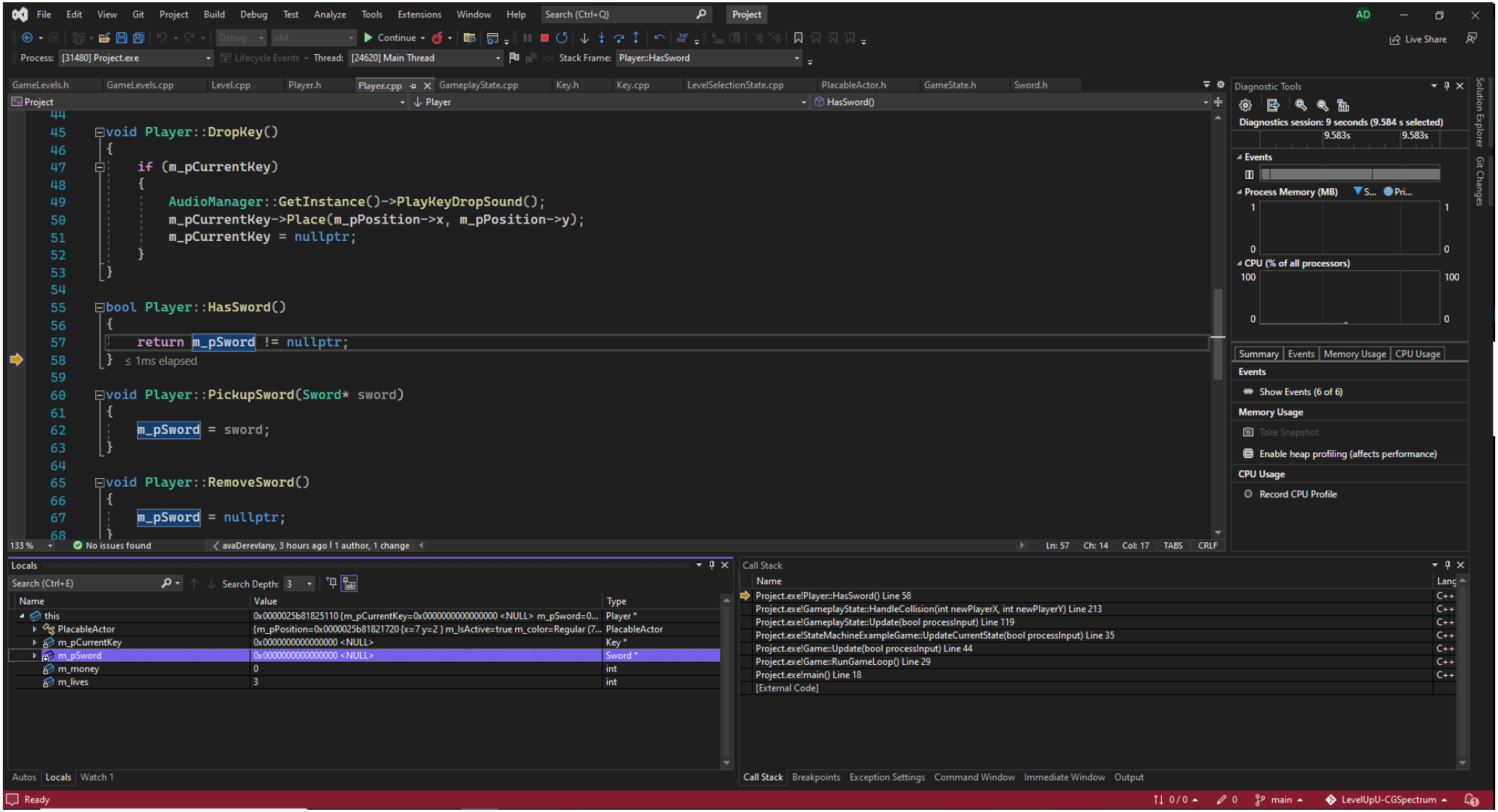


When I was building my Sword actor, I wanted the sword to only last for the current level it was picked up on. Level 2 and Level 3 had swords on them. When you picked up the sword on Level 2, then progressed to Level 3 and tried to pick up the sword there, you originally could not. Line 213 “if (!m_player.HasSword()” would evaluate to true. The player still had the sword, even though I had thought that after each level, everything restarted. Had I set a breakpoint and compared the memory address of the collidedSword pointer to the sword pointer saved in the player (which I could check by stepping into the function HasSword(), shown in the image below) I would have seen that a) m_player.m_pSword was not null, and b) m_player.m_pSword had a different address then collidedSword. Although I did not do that originally, it could have helped me come to the conclusion quicker that I needed to remove the player’s sword pointer reference after each level, that the levels themselves reset, but the player is persistent.



(the images above do not show the exact problem I was talking about as I had already solved it, but rather the player picking up a sword for the first time.)

Screenshot of the CPU performance, GameplayState::Update highlighted in yellow.