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| **Testing** | **Evidence** |
| I created version one, where a random number is generated and a single guess is made. The program decides whether the two are the same or not. I tested a correct guess, an incorrect guess, and a guess on either side of the random number. |  |
| In version two, the program loops forever until the user correctly guesses the random number. To test this version, I got the guess right on the first try, tried some boundaries around the random number, and some completely wrong numbers. To end the loop, I always had to finish with getting it right. |  |
| In version three I added the hints about whether the number is higher or lower than the guess. I started off testing with getting the guess right on the first try. Then I tried a variety of higher numbers, a variety of lower numbers, a variety of higher numbers, a mix, and boundary values around the number. |  |
| I started creating version four, which adds in a guess counter and a limit to the number of guesses. I started this out hard coded as 10.  I changed the while loop to accommodate for this, and added an extra if/else statement so that the “number is lower/higher” would not print if this was the user’s last guess.  However, this meant that the guess\_num > 0 comparison was being made twice, and therefore wasn’t really necessary in the while loop.  So, I changed the while loop to an infinite loop (while True) with two ways to break it – if the guess is correct or if the user runs out of guesses. |  |
| Testing version four. I tried getting it right on the first guess, getting it wrong a few times, getting it wrong nine times, and then running out of guesses. They all worked as expected. |  |
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