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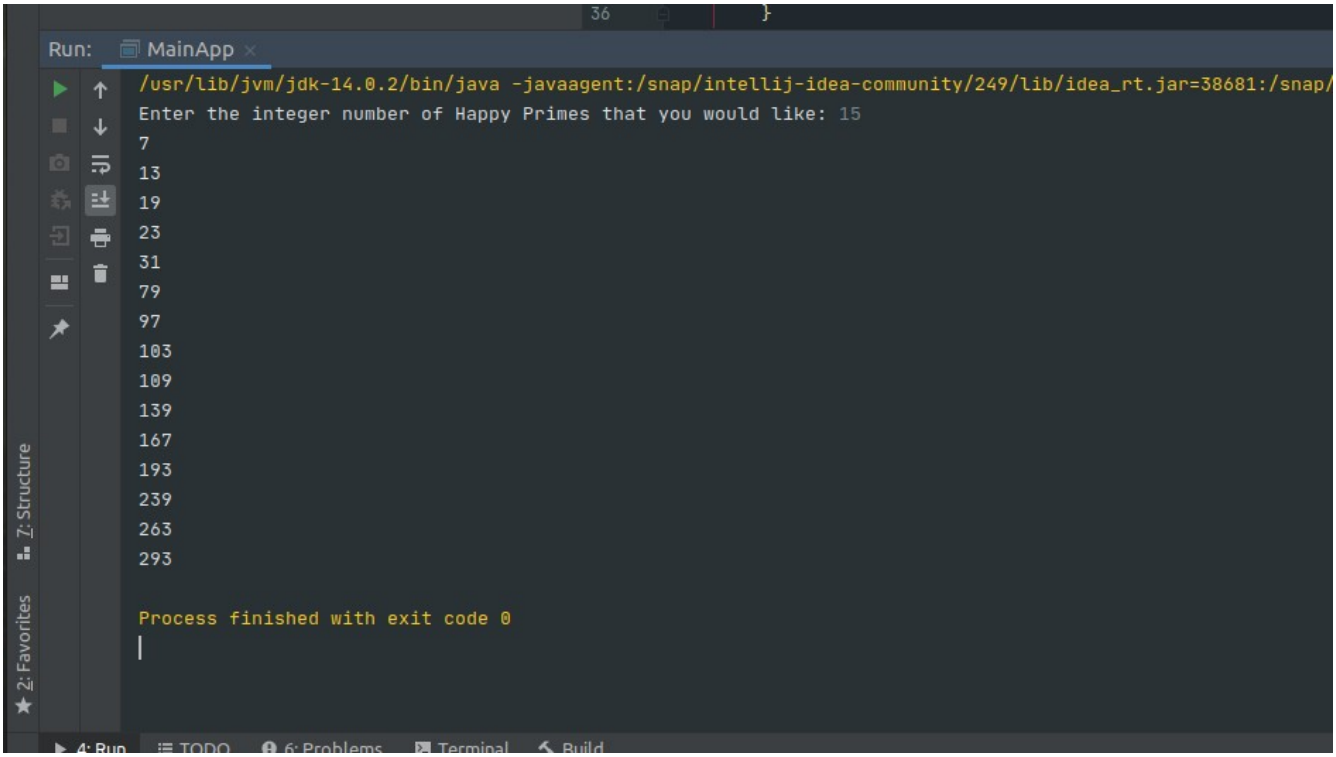
Dr Reinhart
CSC 335

CSC 335 – Happy Primes



For this program, I started by researching what happy numbers are. Then I wrote the class to check whether a number is prime, since that is an assignment I have had before. I tested that class using different numbers, then made a test loop to print out the first n prime numbers (I hardcoded n at this point for convenience). Finally, I worked on the class to test whether a number is happy. I admit I was a little lost at first, but I realized if I could isolate the last digit of the number (a technique I learned in an earlier class), I could square and sum that with the square of each next digit. I used techniques I learned in my 210 and 110 classes to do so.

To ensure that the program was correct, I tested each class individually, comparing each to a list of happy or prime numbers, then tested them together with the complete program and compared those to a list of happy-prime numbers.