

Practice Problems

AWM - Introduction to Coding in R Workshop

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1. Use if statements to write a program that tests whether a number is even or odd.
 - Hint: you may find the “`floor()`” function useful.
2. Use if statements to write a program to tell you whether a student has met the prerequisites for Math 161.
 - The prerequisites for Math 161 are:
D or higher in both Math 160 and Math 124.
 - Assume the student has taken both Math 160 and Math 124 with a grade of A, B, C, D, or F.
3. Use if statements to write a program that will tell you whether the roots of a quadratic polynomial are real or imaginary.
4. Use for loops to find the squares of the integers $[0, 10]$.
5. Use for loops and if statements to record which of the integers in $[0, 50]$ are perfect squares.
6. Use for loops to count the number of characters in each of the following fruit names: banana, strawberry, apple, pear, dragonfruit.
 - Hint: you may find the “`nchar()`” function useful.