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Discussion 1E

**Project 5 Report**

1. Obstacles

The biggest obstacle I had to overcome was figuring out how classes worked. It was hard getting used to thinking in terms of classes and objects. I overcame this by reading the textbook and understanding the sample problems given.

1. Test Data

Testing whether a non-cusp date works perfectly.

 Date jan1( 1, 1 );

    ZodiacReader reader( jan1 );

    assert( reader.stringifySign( reader.checkSign() ) == "Capricorn" );

    assert( reader.checkSign( ) == ZodiacReader::CAPRICORN );

    assert( !reader.onCusp( ) );

Checking whether a cusp date works perfectly, and whether stringifySign works.

    Date jan20( 1, 20 );

    ZodiacReader reader1( jan20 );

    assert( reader1.stringifySign( reader1.checkSign() ) == "Aquarius" );

    assert( reader1.checkSign( ) == ZodiacReader::AQUARIUS );

    assert( reader1.onCusp( ) );

    assert( reader1.stringifySign( reader1.cuspSign() ) == "Capricorn" );

    assert( reader1.cuspSign( ) == ZodiacReader::CAPRICORN );

Checking whether a few other random test cases work properly.

    Date dec31(12, 31);

    ZodiacReader reader2(dec31);

    assert(reader2.stringifySign(reader1.checkSign()) == "Aquarius");

    assert(!reader2.onCusp());

    assert(reader2.stringifySign(reader2.cuspSign()) == "Aries");

    Date jul22(7, 22);

    ZodiacReader reader3(jul22);

    assert(reader3.stringifySign(reader3.checkSign()) == "Cancer");

    assert(reader3.checkSign() == ZodiacReader::CANCER);

    assert(reader3.onCusp());

    assert(reader3.cuspSign() == ZodiacReader::LEO);

    assert(reader3.stringifySign(reader3.cuspSign()) == "Leo");

    Date oct29(10, 29);

    ZodiacReader reader4(oct29);

    assert(reader4.stringifySign(reader4.checkSign()) == "Scorpio");

    assert(reader4.checkSign() == ZodiacReader::SCORPIO);

    assert(!reader4.onCusp());

    assert(reader4.cuspSign() == ZodiacReader::ARIES);

    assert(reader4.stringifySign(reader4.cuspSign()) == "Aries");

    Date jan17(1, 17);

    ZodiacReader reader5(jan17);

    assert(reader5.checkSign() == ZodiacReader::CAPRICORN);

    assert(!reader5.onCusp());

    assert(reader5.cuspSign() == ZodiacReader::ARIES);

    assert(reader5.stringifySign(reader5.checkSign()) == "Capricorn");

    assert(reader5.stringifySign(reader5.cuspSign()) == "Aries");