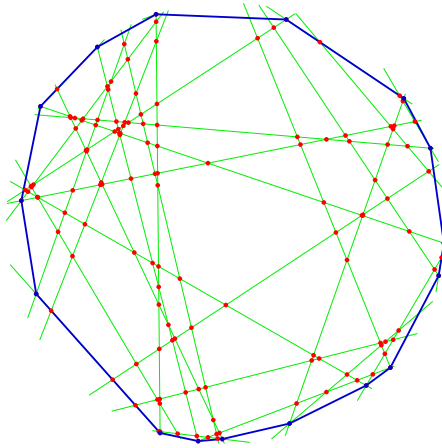


Exercise Set 3

1. Now that we know how to implement predicates for points with exact double precision coordinates such that they always return the correct result, next we want to try to improve the efficiency. Implement more time-efficient versions of the predicates required for the convex hull code from Exercise Set 1, using filters and/or adaptive computation.



2. So far, the predicate implementations assume exact coordinates. Redesign your point type and your predicates such that we can compute the exact convex hull of the intersection points of line segments efficiently.