Lovish 0 ★ 1551 Last Updated: Oct 18, 2023 5:14 PM 10.8K VIEWS

Love Sweep Algorithms

Love Sweep (or Sweep Line) is an algorithmic technique where we sweep an imaginary line (or a point) and solve various problems.
There would be an event (entry or exit) and based on that we update the information and then return result.

This is going to be a long post, so I have divided into 3 parts.

1. 1D Easy/Medium problem.
2. 1D Hard problem.
3. 2D geometric problems.

There could be errors, please point in comments.
Also suggest more problems to be added to this list.
Inviting Brownies: Ideas??? Is your suggestion for improvement.

1D Easy/Medium problem

1834. Maximum Population Year [Easy]
Given a list of logs, find the maximum no. of persons.
Imagine life as a line, when a person born, population of that year +1 and when he expires population decreases by 1.