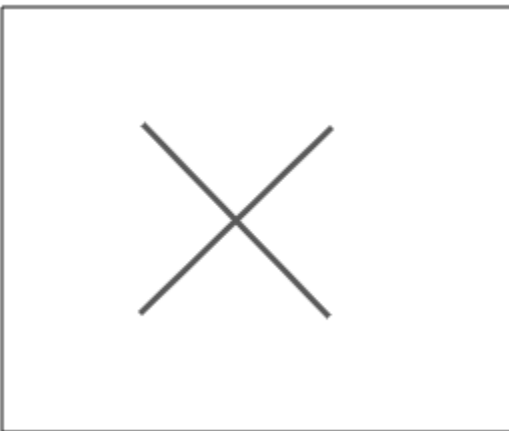# Assignment 5

Objective: Implement a simple interface where user will be able to draw lines, points and determine line intersection

Deadline: 5 PM, Nov 5, 2021

Description: In this assignment, you will use your previously created interface to draw a set of line segments. The user will provide the segment information (the starting point and the ending point) in the input text box:

```
(0, 0), (1, 1)
(0, 1), (1, 0)
```

Then there will be a "Draw" button, clicking that button will show all these line segments in a svg display:

Finally there will be a button called "Find intersection". When the user clicks that button you have to show all the intersecting pairs of segments in a output text box:

```
segment 0 crosses segment 1
```

Finding segment intersection is a hard problem. You do not need to implement it. Instead use this library:

https://abureyanahmed.github.io/data_visualization/slides/crossings.js

In this library there is a function called "linkCrossingsParam" which takes an array of line segments as input and returns an array containing the segment pairs that intersect each other.