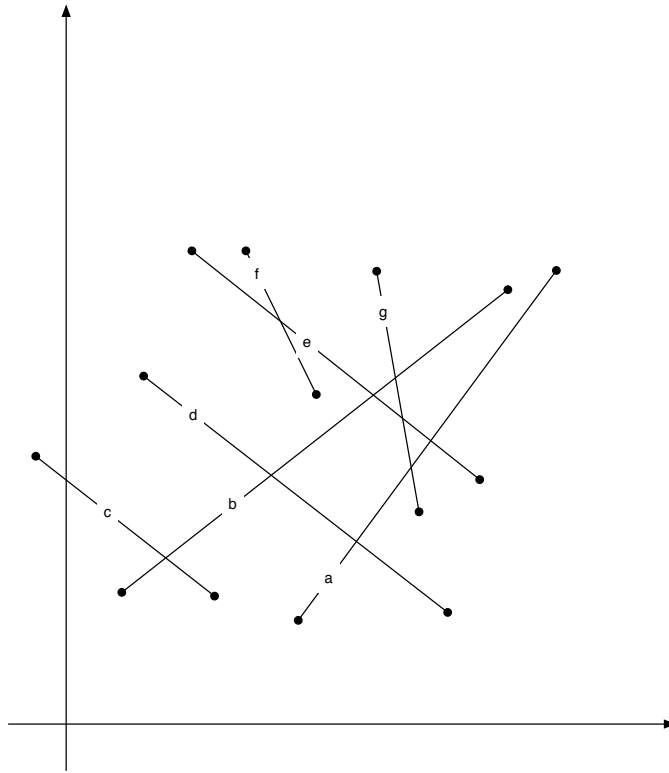


csci3 250 Computational Geometry
 Bentley-Ottmann Sweep

Consider the set S of 7 segments shown in the picture below.



Simulate the Bentley-Ottmann sweep on S: Show the event queue, the Active Structure AS, and the intersection tests that are performed at every event.

Event	Event Queue	AS	Intersection tests
-	a1 b1 d1 e1 c2 f1 a1 f2 g1 g2 d2 e2 b2 a2	{}	-
c1	b1 d1 e1 c2 f1 a1 f2 g1 g2 d2 e2 b2 a2	{c}	-
b1	b1 x_{bc} d1 e1 c2 f1 a1 f2 g1 g2 d2 e2 b2 a2	(c,b)	c int b = x_{bc}

