Given a set of n points in the plane , each point being represented by its Cartesian coordinates (*xA*, *yA*), design and implement a GA to find, if there exists, 3 collinear points in the set S. The points are collinear if one of the following properties is true:

where

values that have a meaningful sequence or ranking(order) between them, but the magnitude between values is not actually known, the order of values that shows what is important but don’t indicate how important it is )