Supowit's Algorithm for Finding MPSC

- Supowit, "Finding a maximum planar subset of a set of nets in a channel," *IEEE TCAD*, 1987.
- Problem MPSC: Given a set of chords, find a maximum planar subset of chords.
 - Label the vertices on the circle 0 to 2n-1.

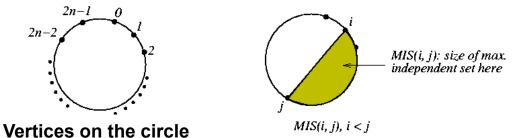
— Compute MIS(i, j): size of maximum independent set between vertices i and j, i < j.

Vertices l and l, l < l.

Answer = MIS(0, 2n-1).

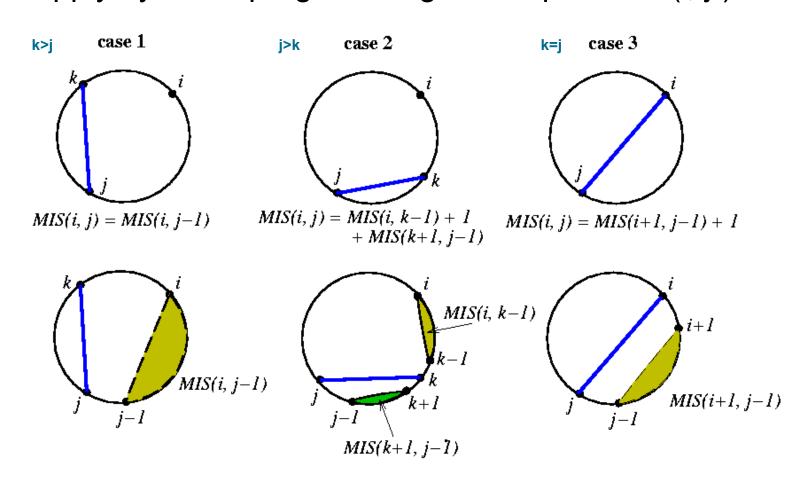
有edge代表有相交,
找最大不相交弦的數量 ll = 0 ll = 0Maximum plannar subset of chords.

Maximum plannar subset of chords. ll = 0 l



Dynamic Programming in Supowit's Algorithm

• Apply dynamic programming to compute MIS(i, j).



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