How to construct a bar visibility graph
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1) \textit{st-orient } G
How to construct a bar visibility graph

1) *st*-orient $G$

2) topologically number $G$
How to construct a bar visibility graph

1) $st$-orient $G$

2) topologically number $G$

3) dual graph $G^*$
How to construct a bar visibility graph

1) \textit{st}-orient $G$

2) topologically number $G$

3) dual graph $G^*$

4) topologically number $G^*$
\[
\text{bar}(v) = (x(\text{left}(v)), x(\text{right}(v)) - 1) \text{ at } y = y(v).
\]
\[
\text{see}(u, v) = (y(u), y(v)) \text{ at } x = x(\text{left}(u, v))
\]
\[ \text{bar}(v) = (3x(\text{left}(v)) - 1, 3x(\text{right}(v)) - 2) \text{ at } y = y(v). \]

\[ \text{see}(u, v) = (y(u), y(v)) \text{ at } x = 3x(\text{left}(u, v)) \]
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\bar{v} = (3x(\text{left}(v)) - 1, 3x(\text{right}(v)) - 2) \text{ at } y = y(v).
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\text{see}(u, v) = (y(u), y(v)) \text{ at } x = 3x(\text{left}(u, v)).
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