

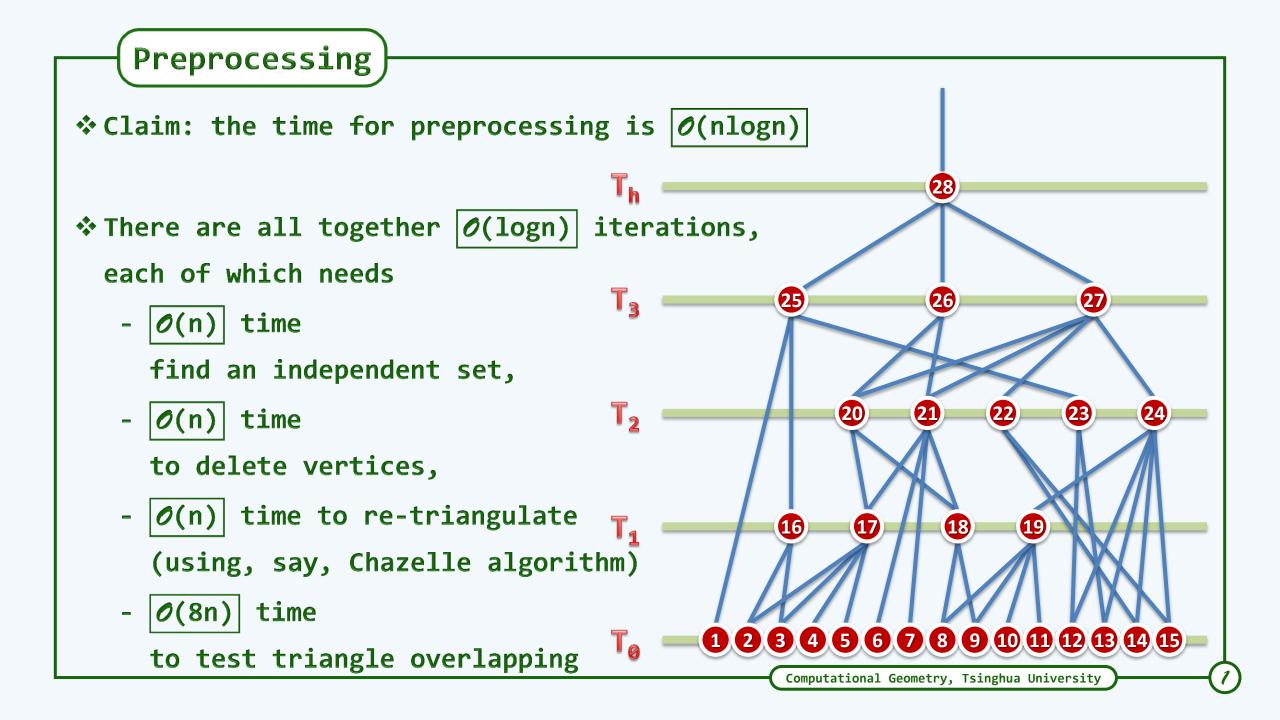
Point Location

Kirkpatrick Structure

- Performance

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Storage

- ❖ Claim: Kirkpatrick structure has a linear size
- ❖ The size of a triangulation

is proportional to

the number of vertices

❖ The total size is proportional to

$$\mathbf{n} \times \left[\left(\frac{17}{18} \right)^0 + \left(\frac{17}{18} \right)^1 + \dots + \left(\frac{17}{18} \right)^{O(\log n)} \right]^{\mathsf{T_1}}$$

$$< 18n = 0(n)$$

