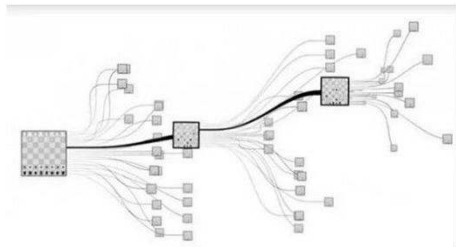


Some other applications

Zhenjia Xu

2016 年 12 月 27 日

- Search algorithm
- exponential :
 $O(x^d \text{epth})$



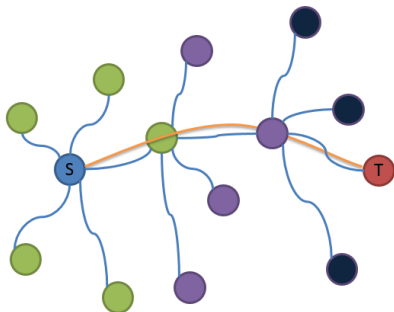
Some other applications

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2016 年 12 月 27 日

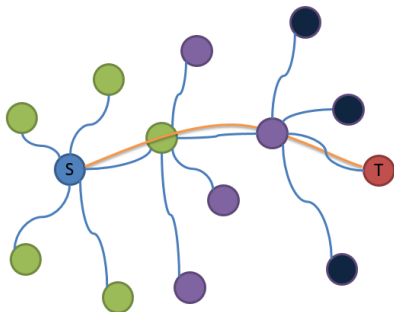
Meet in the middle

- an undirected graph
- degree is 5
- find path: S to T



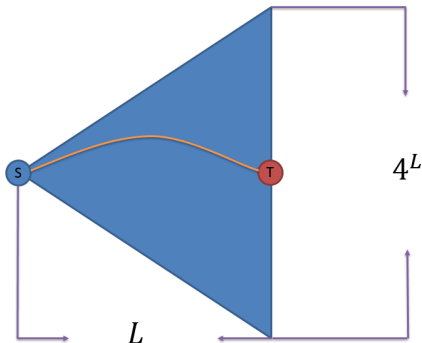
Meet in the middle

- an undirected graph
- degree is 5
- find path: S to T
- $\text{dist}(S, T) = L$



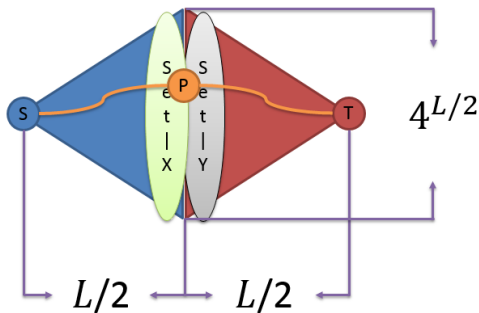
Meet in the middle

- an undirected graph
- degree is 5
- find path: S to T
- $\text{dist}(S, T) = L$
- $O(4^L)$



Meet in the middle

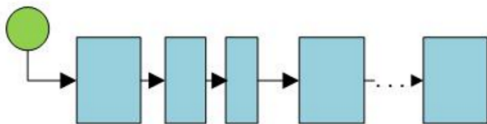
- an undirected graph
- degree is 5
- find path: S to T
- $\text{dist}(S, T) = L$
- $O(4^L)$
- Meet in the middle
- $O(4^{L/2})$



- Mo's algorithm

Some other applications

- Mo's algorithm
- Bolcked list



- Mo's algorithm
- Bolcked list
- Dinic(capacity is 1)

- Mo's algorithm
- Bolcked list
- Dinic(capacity is 1)
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