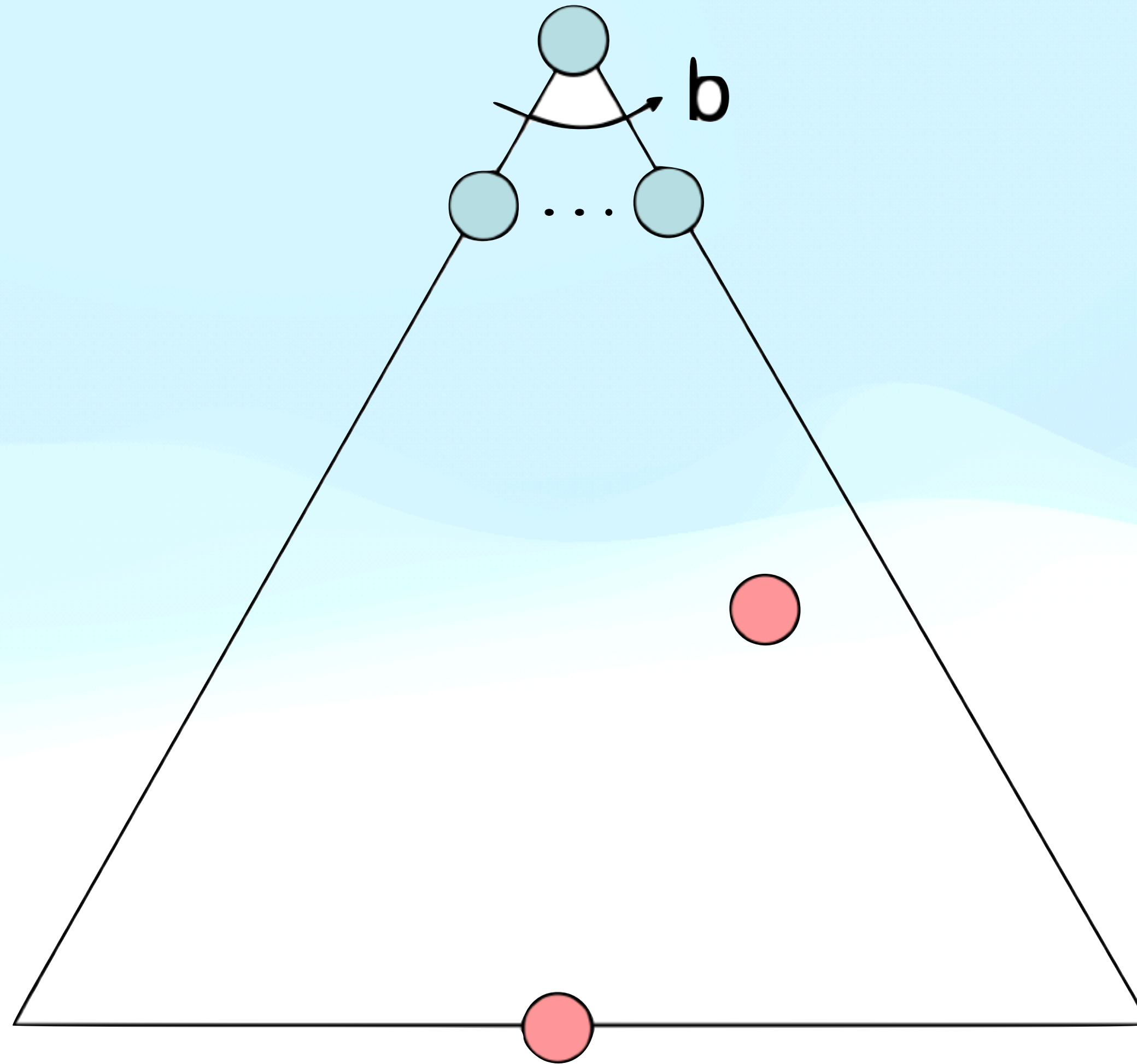# DFS algorithm

- Time Complexity: $\tilde{\mathcal{O}}(b^m)$

- Space Complexity: $\tilde{\mathcal{O}}(bm)$

- Completeness? **No**

- Optimal? **No**

1 node

b nodes

b^2 nodes

b^m nodes

DFS vs BFS