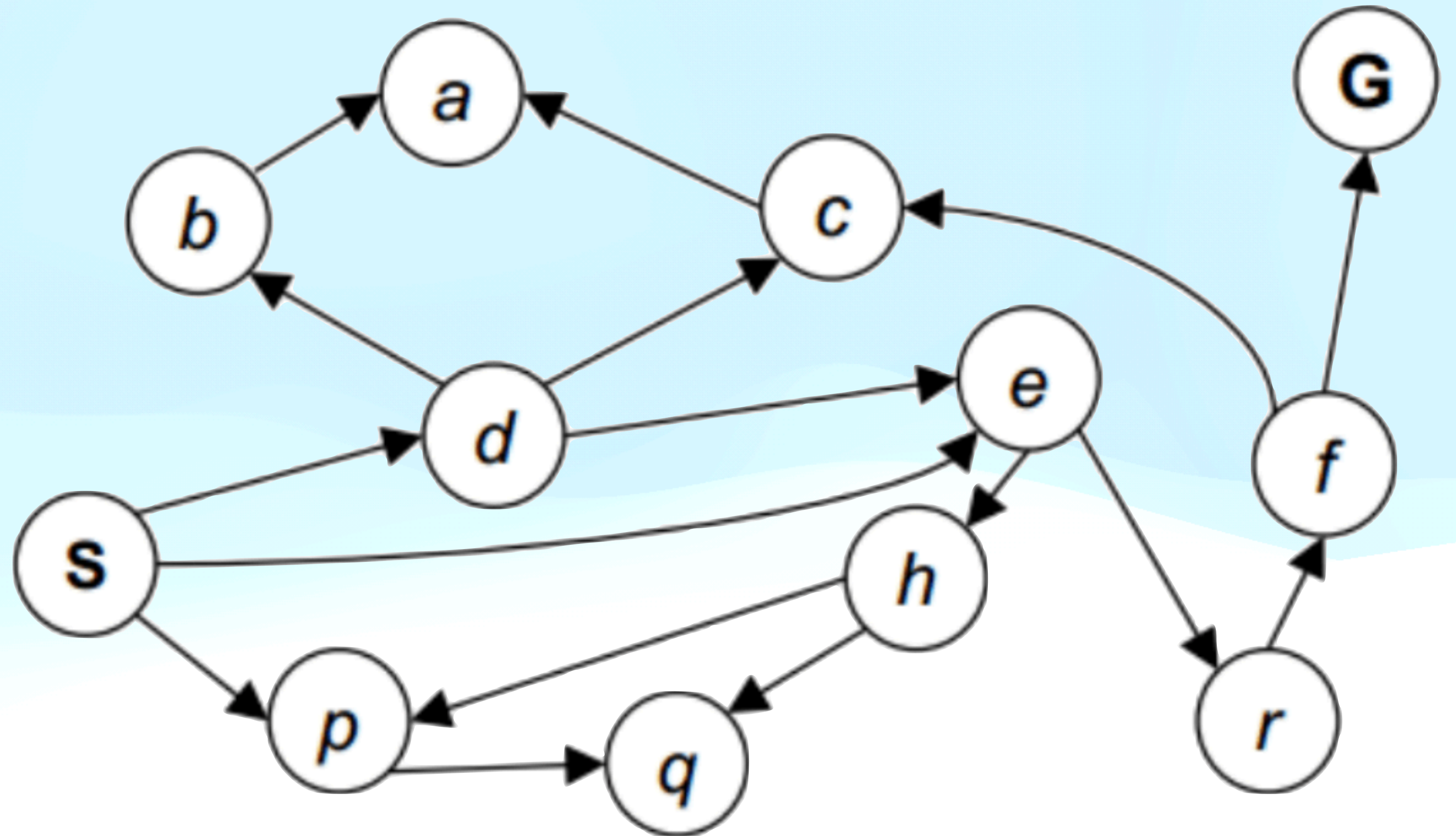


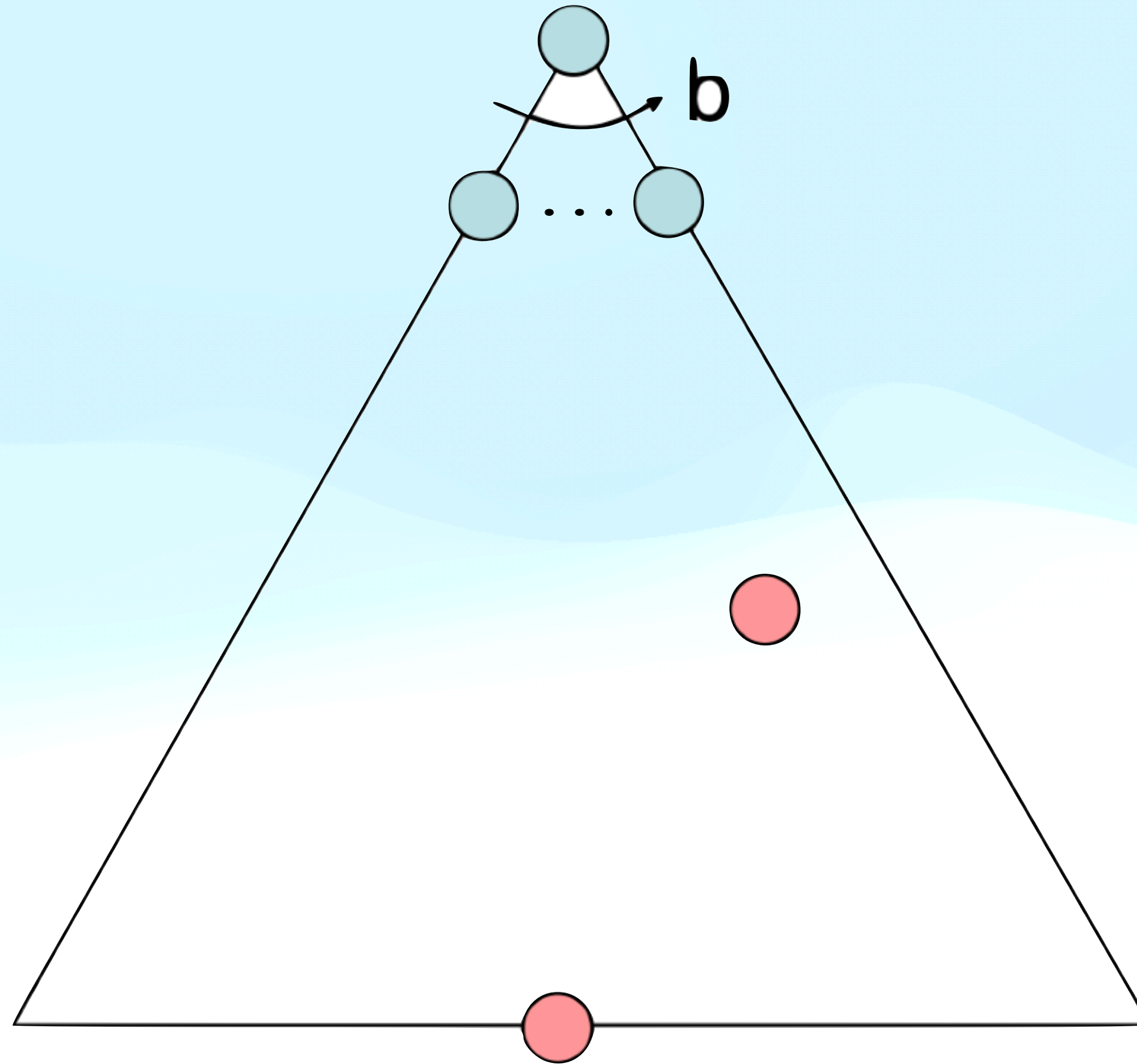
# DFS

- Order of Generated
  - d, e, p, q, h, r, f, c, G
- Order of Expand
  - S, p, e, r, f, G



# DFS algorithm

- Time Complexity:  $\tilde{O}(b^m)$
- Space Complexity:  $\tilde{O}(bm)$
- Completeness? **No**
- Optimal? **No**



1 node

$b$  nodes

$b^2$  nodes

$b^m$  nodes