### In the name of God

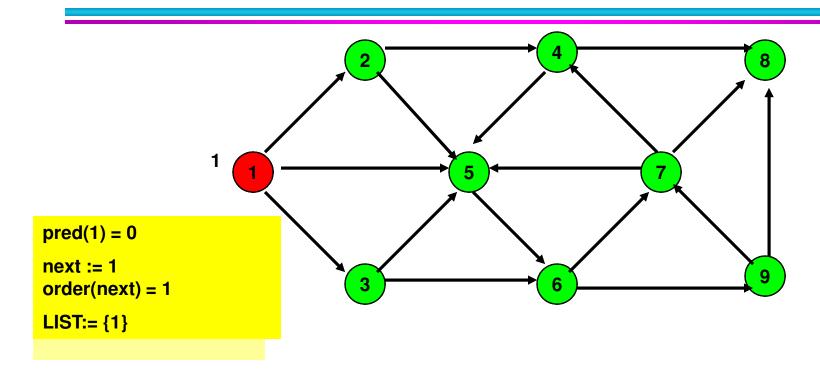
# **Network Flows**

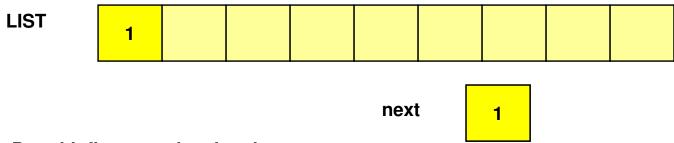
# 2. Search Algorithms2.2 Breadth-First Search –An Example

**Fall 2010** 

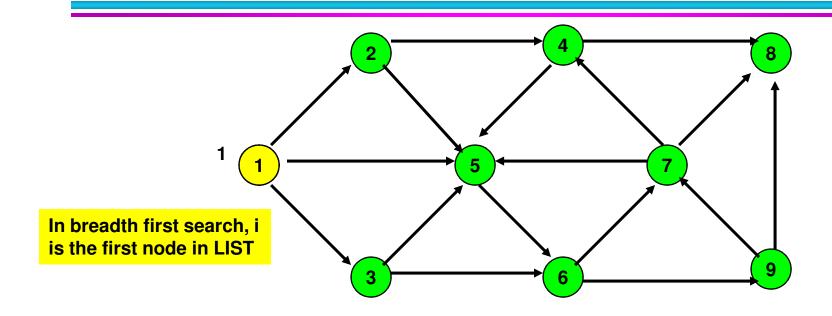
Instructor: Dr. Masoud Yaghini

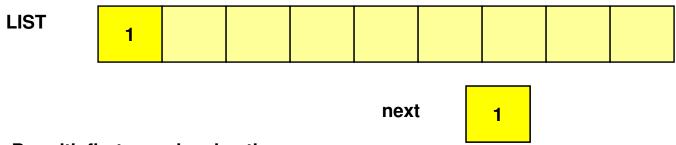
# **Initialize**





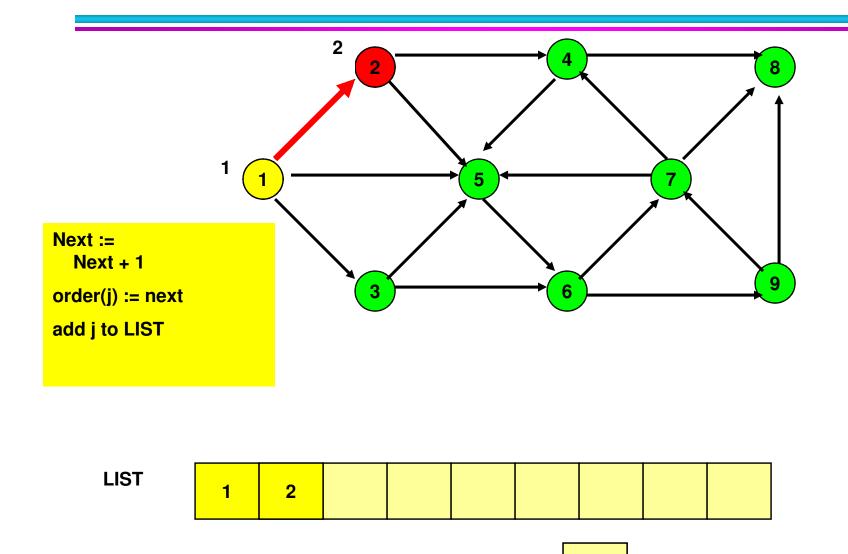
# **Select a node i in LIST**

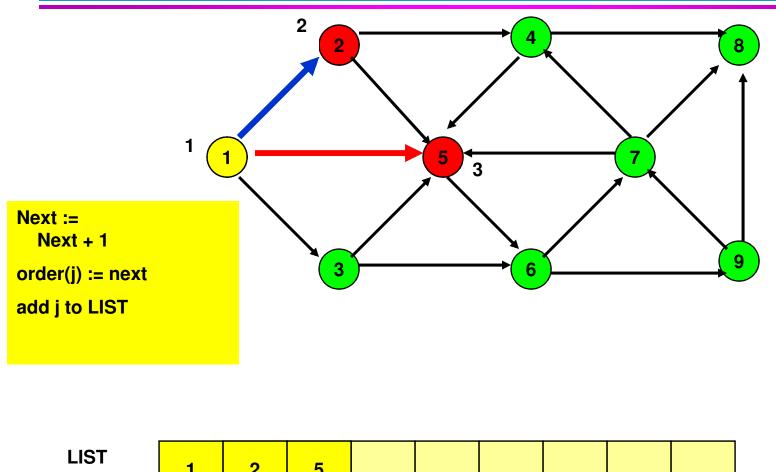


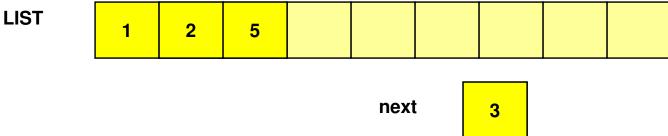


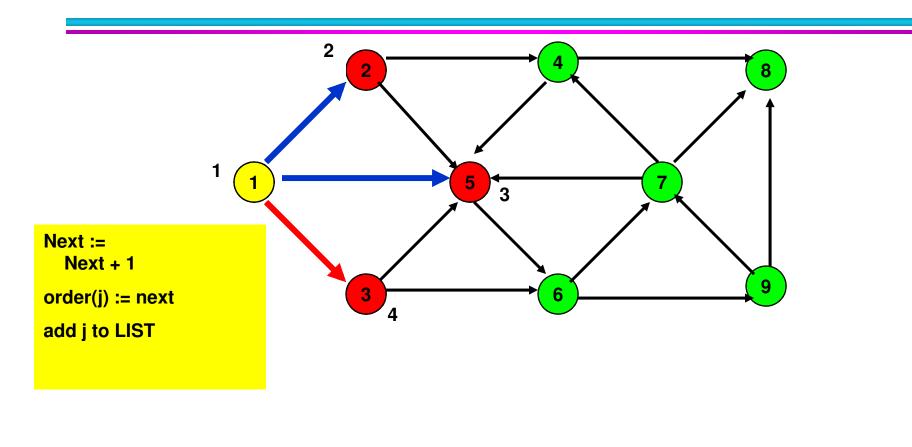
next

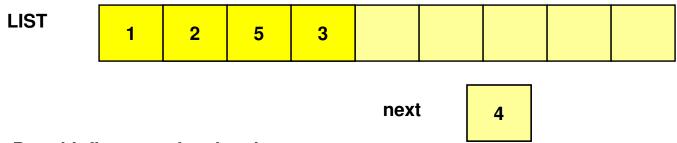
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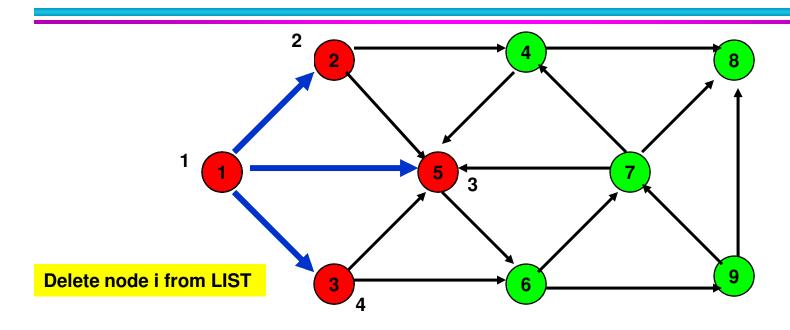


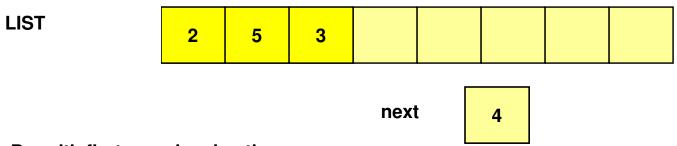




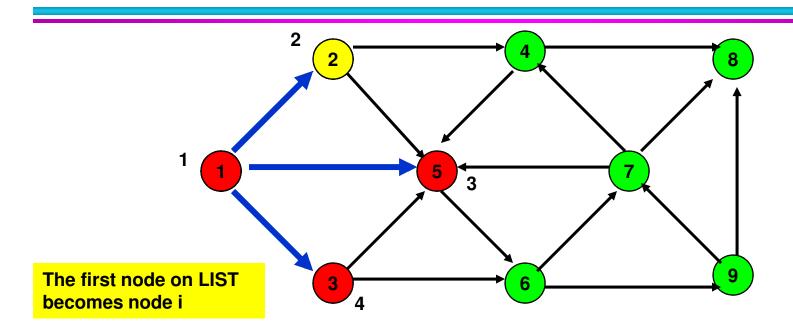


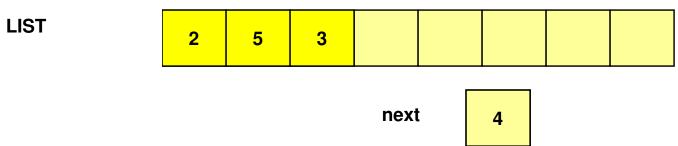


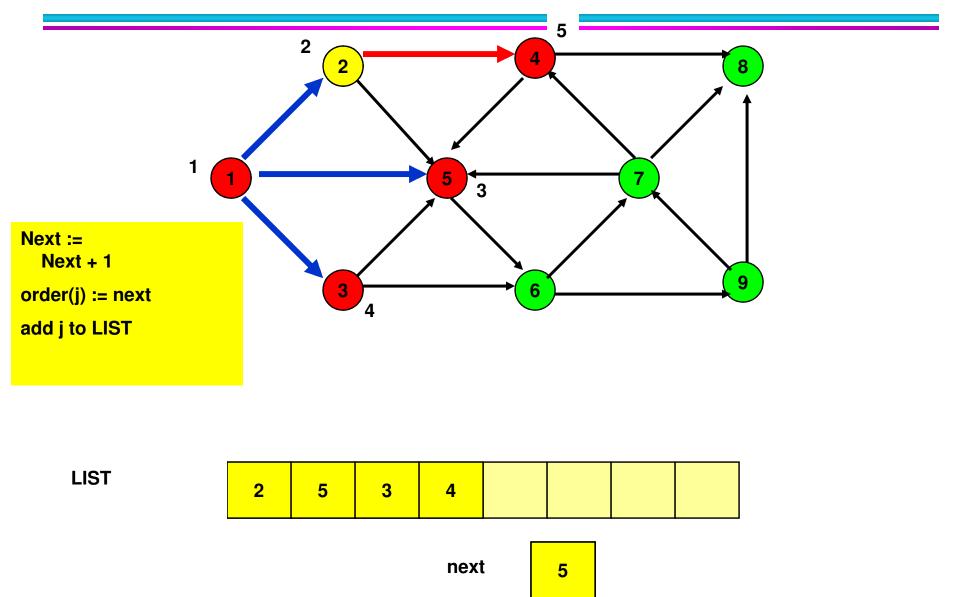




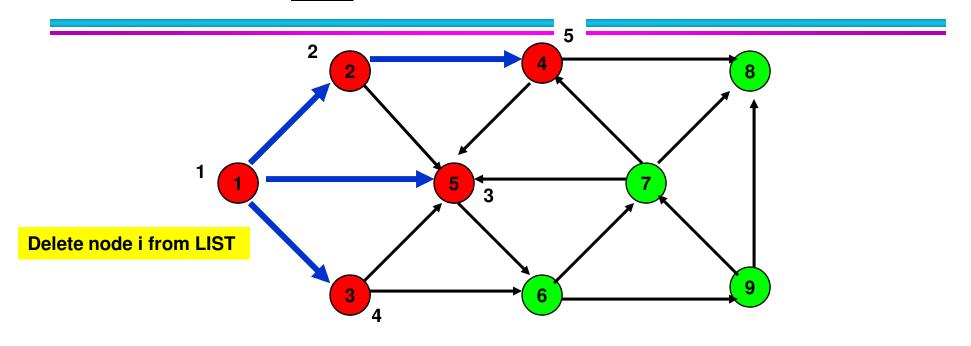
### **Select Node i**

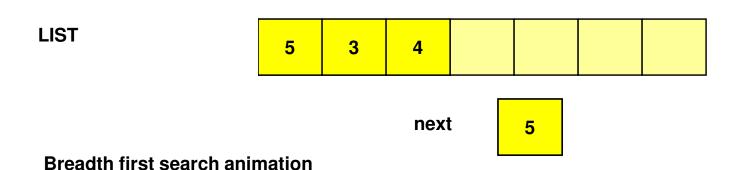


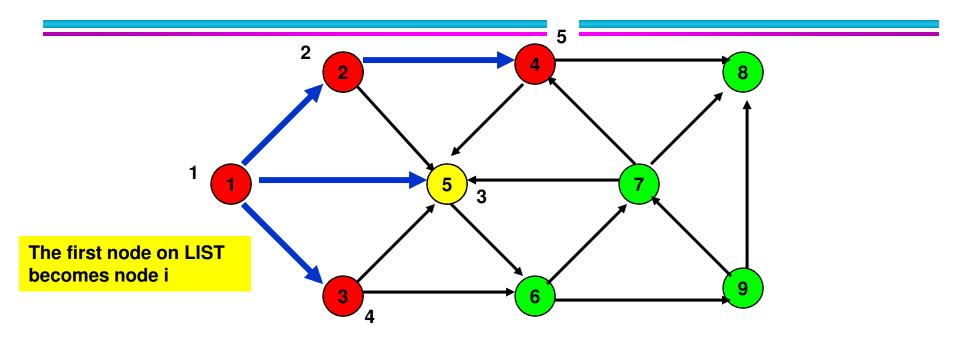


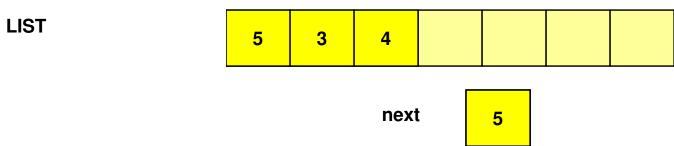


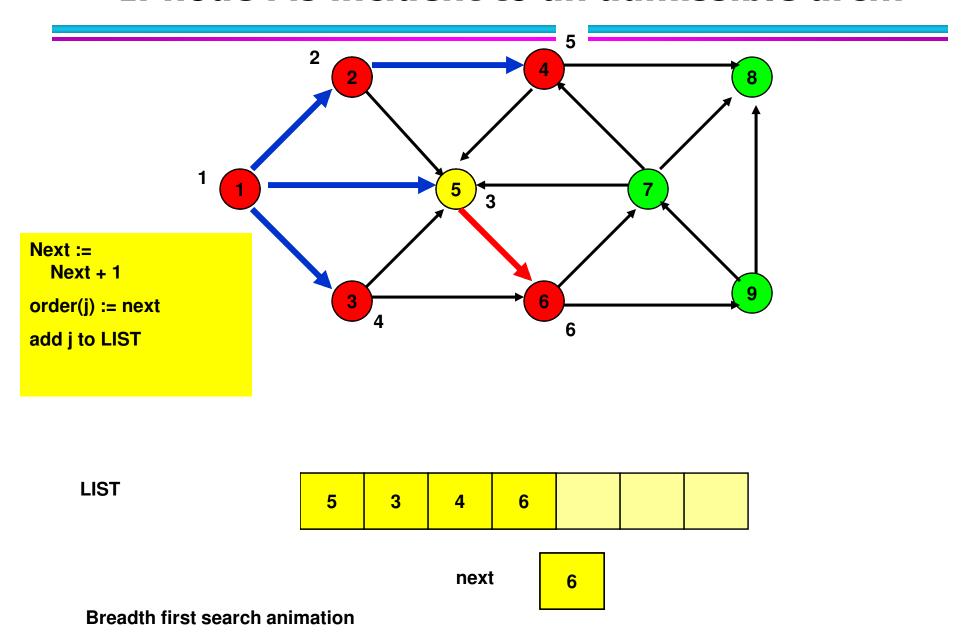
# If node i is <u>not</u> incident to an admissible arc...



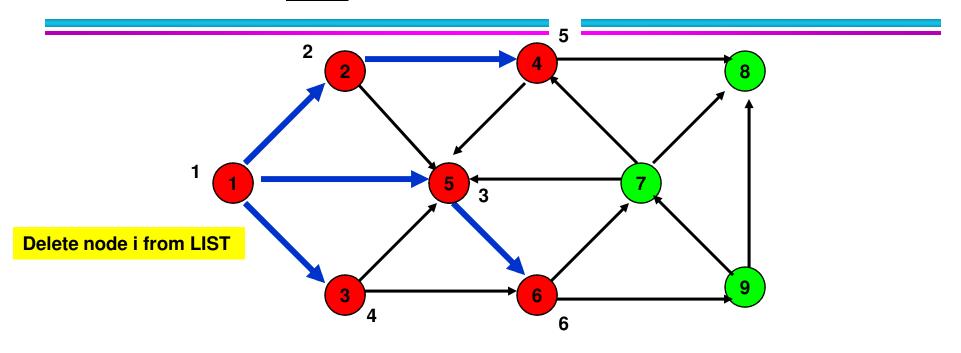


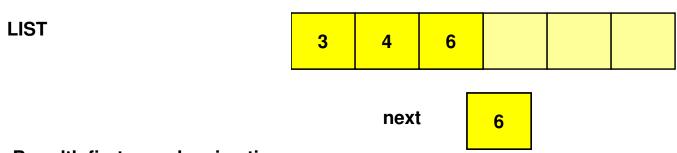


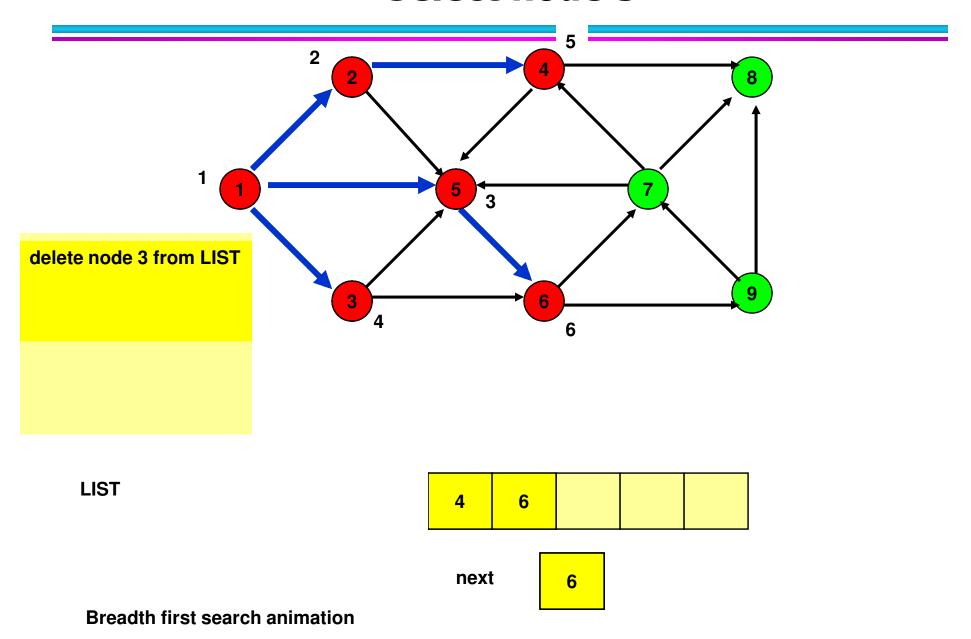


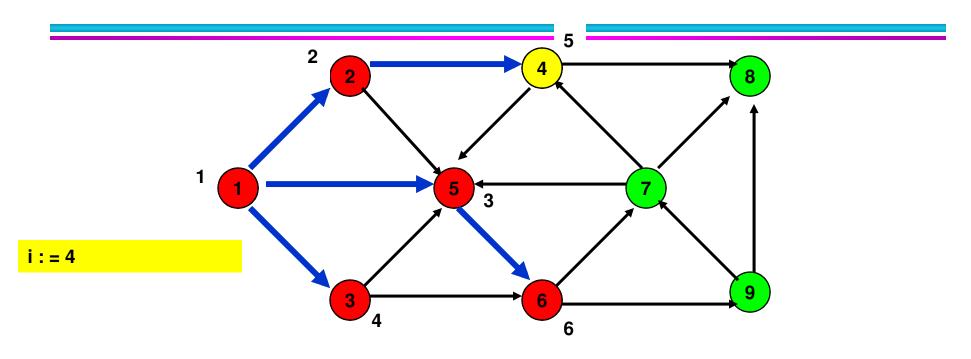


# If node i is <u>not</u> incident to an admissible arc...

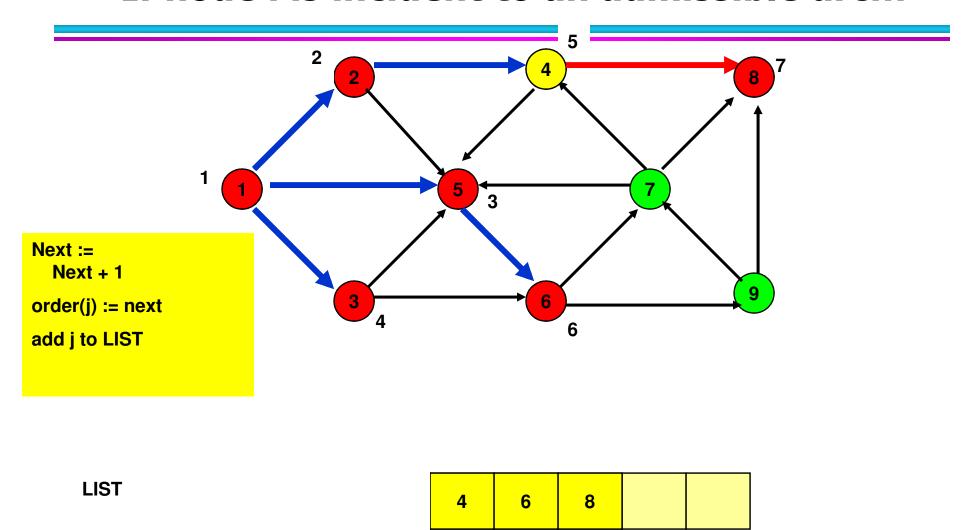








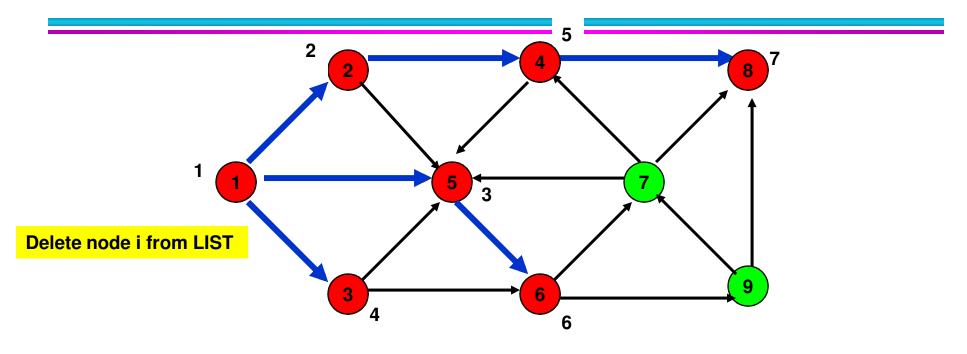




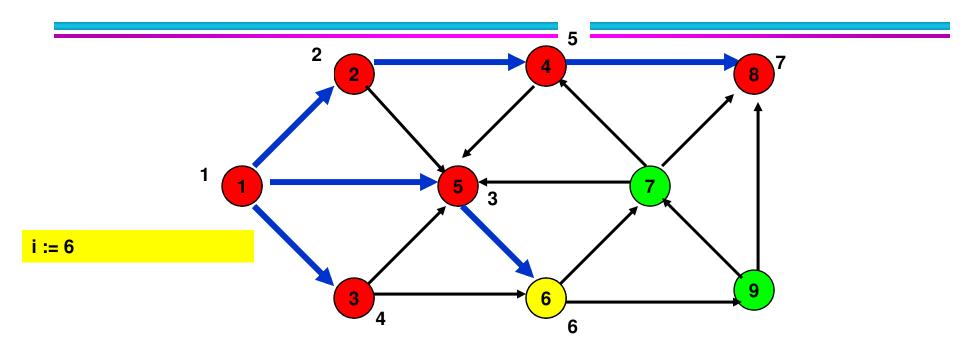
next

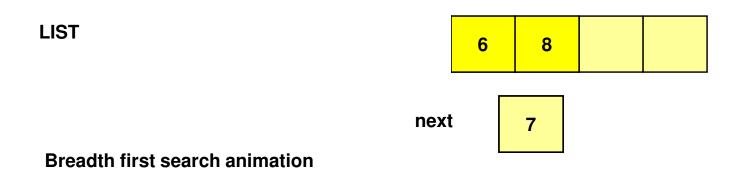
7

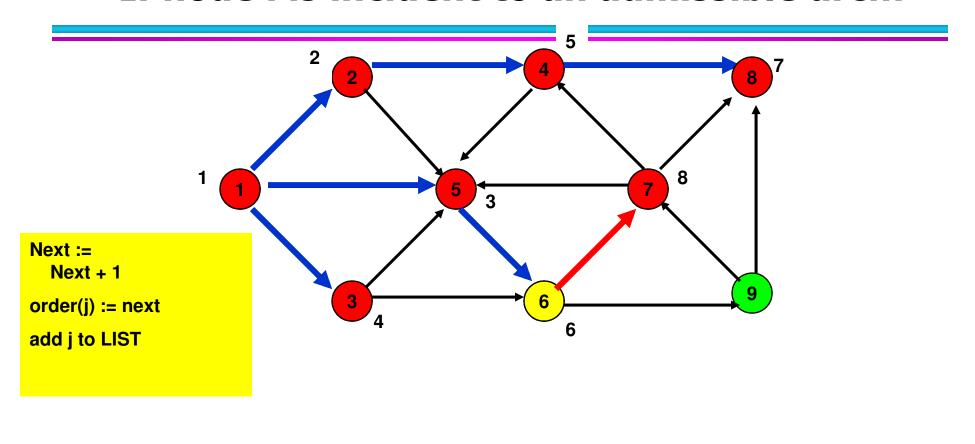
# If node i is <u>not</u> incident to an admissible arc...

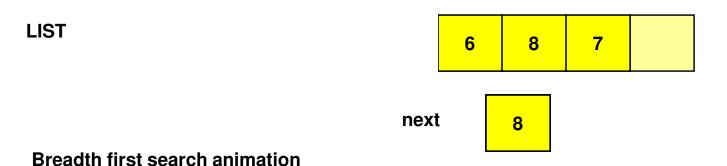


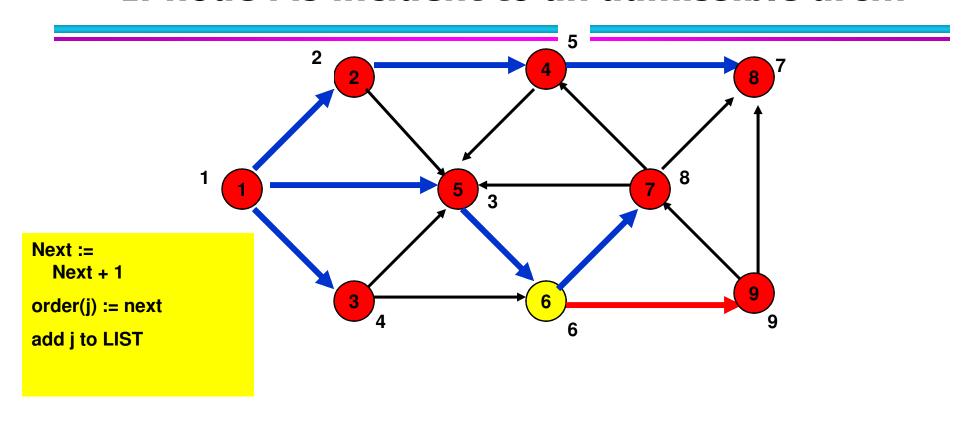






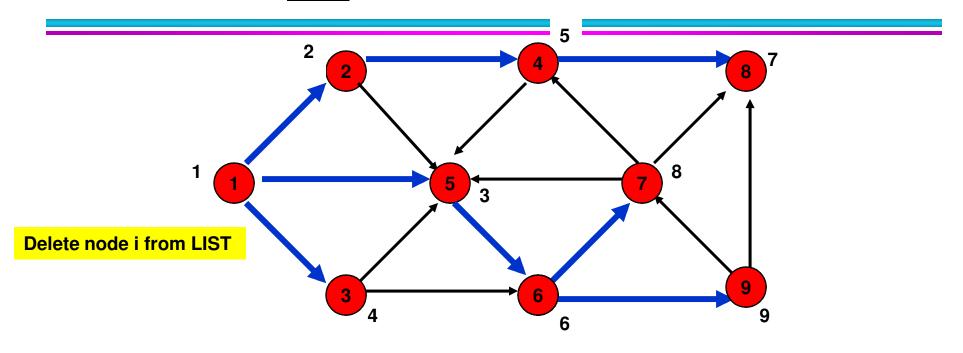




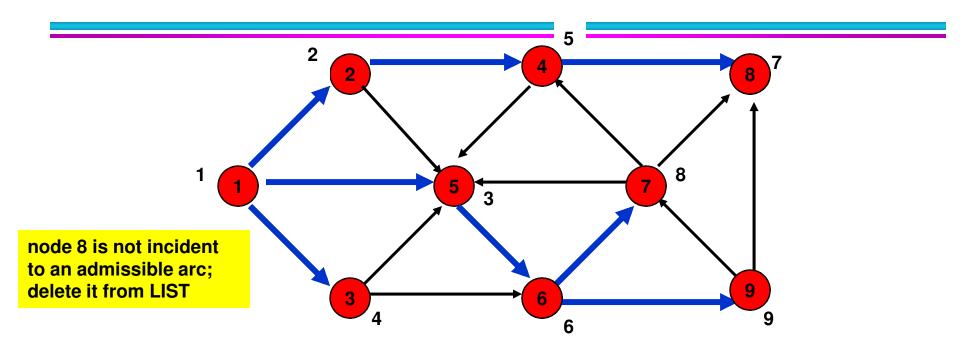




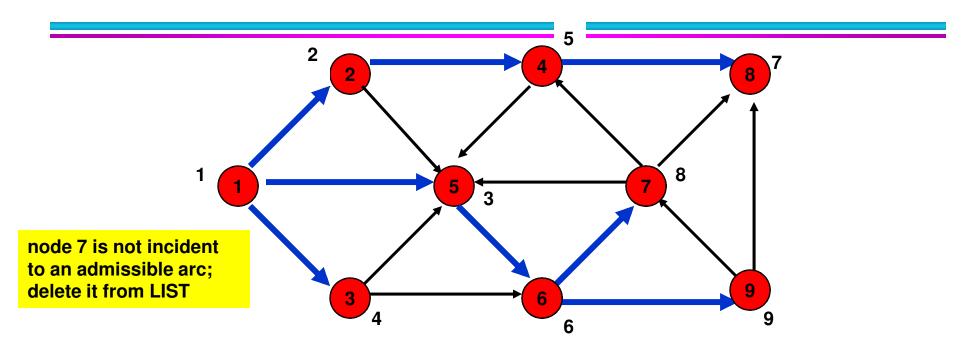
# If node i is <u>not</u> incident to an admissible arc...







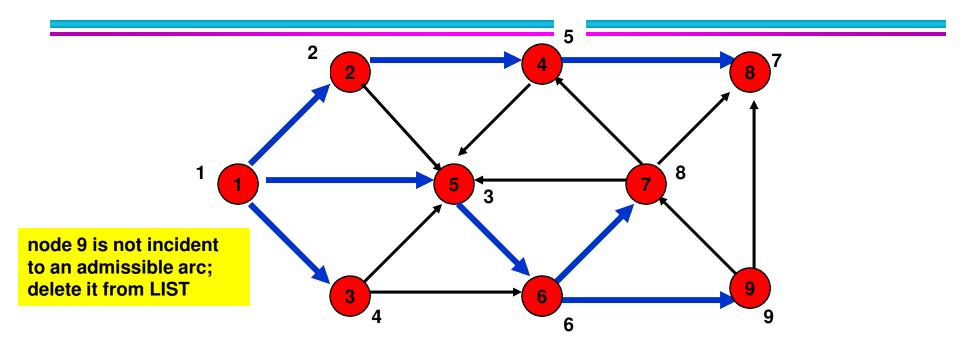




LIST

next
9

Breadth first search animation



LIST

next

9

# The End