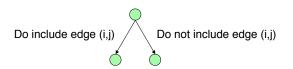
New Search Tree

Use the same method for computing bounds.



What happens to the matrix when an edge is excluded?

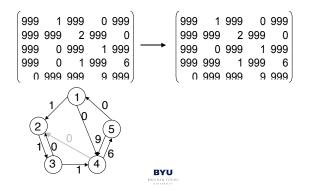


Traveling Salesperson: Done another way.

Lecture 29 CS 312



Excluding an Edge

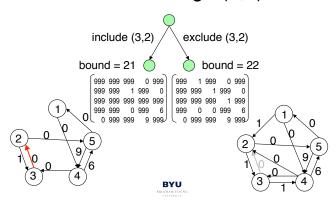


Which edge to consider

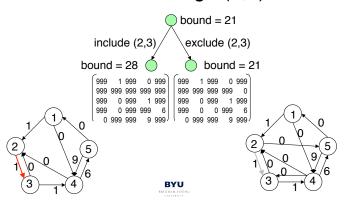
- · Maximize "exclude" bound.
- Maximize the difference between the two.



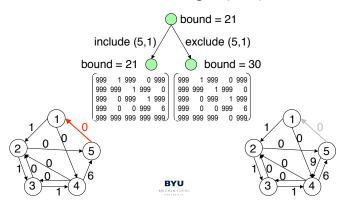
Consider edge (3,2)



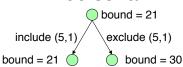
Consider edge (2,3)



Consider edge (5,1)

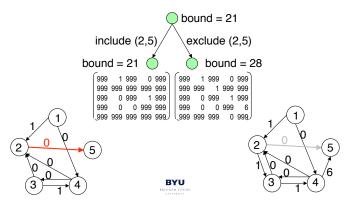


Tree so far

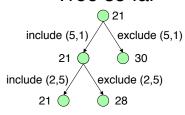


BYU

Consider edge (2,5)

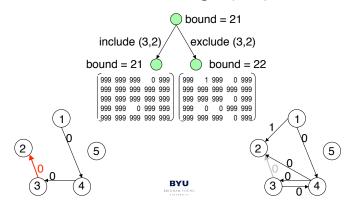


Tree so far

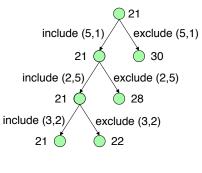


BYU

Consider edge (3,2)

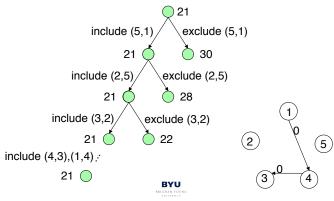


Tree so far



BYU

Tree so far



Things to ponder

- Under what conditions can a node be killed?
 - Don't focus strictly on the bounds.
- · Homework:
 - do the same TSP problem, but using the algorithm we discussed today.
 - do it before Thanksgiving for max. effectiveness.

