CS 6373
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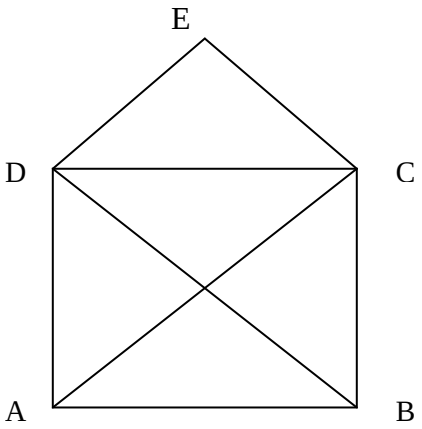
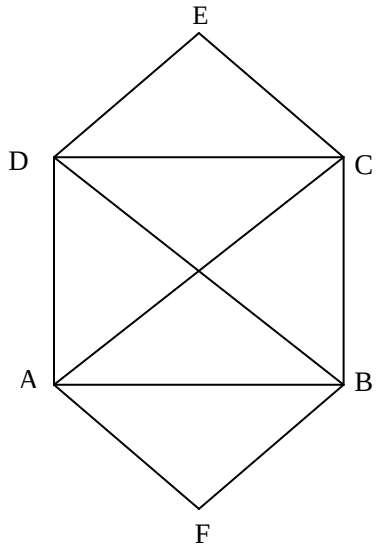
Homework #1
Due February 9, 2015 before the class

You are to design an intelligent agent to draw a continuous line starting from node A and covering all links of the graph only once and end up in: (a) node A, (b) anywhere.





Submit via eLearning:

1. Formulation of the problem by deciding how to represent an arbitrary state, the initial state and the goal state. (paperwork)
   Your code for finding the solutions along with building scripts and ReadMe file. Please, use C++, Java or Python. *Implement both depth-first and breadth-first strategies.*

2. *2 reports generated by your program (one for each strategy).* The report should have a format like:

   Figure 1 from A to A:
   The first found solution: A D N N N A
   Number of nodes expanded to find the first found solution: NNN

   1 solution
   A D N N N A where Ns are specific nodes

   Figure 1 from A anywhere
   No solutions

   Figure 2 from A to A:
   First found solution: A B N N N A
   Number of nodes expanded to find the first found solution: NNN

2 solutions
A B N N N A
A C N N N A

Figure 2 from A to anywhere:
No solutions

3. Please, make **one .zip file** with all submitted files. eLearning doesn't allow downloading all files at once, only one by one. (10 files per person, 50 students in a class – you can imagine ;-)