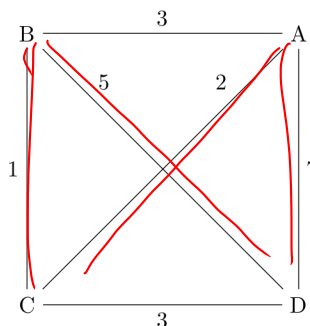


Math 1015 HW #12

#16, 2, 3, 4a

#16 NN starting at A:

ACBDA



#2

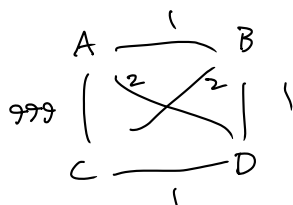
Probably NN is the easiest - just start at A and choose the cheapest edge each time.

Sorted Edges is not too bad but we have to list out all edges in order, and there are a lot of edges.

Brute force would be totally impossible - there are too many circuits to list and check.

#3

Something like:



Sorted edges will choose the three 1's, but then be forced to choose ~~999~~. So sorted edges will pick ABCDA \rightarrow 1002.

But this is not the best possible: ABCDA \rightarrow 6 is much better.

#4a

Sorted edges:

1, 2, 3, 4, 6, 7, 10, 11, 12, 13, 14, 15, 17, 20

ACBDEFA

or AFEDBCA

