Euler circ uses each edge 1 time.

Euler path . . . - - - - -

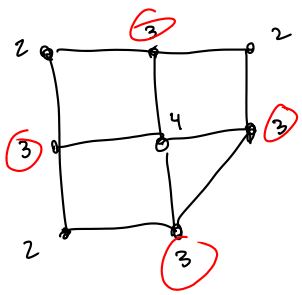
circuit starts & ends at the same vertex

path doesn't

If all degrees are even, E. circ exists.

If all are even except 2 odds, E. path exists.

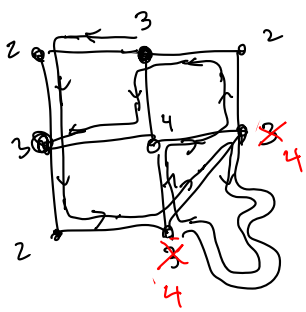
(start & ends at the odds)



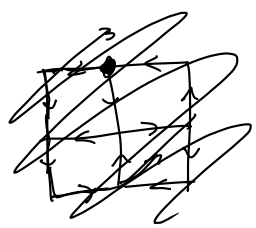
Mr Plow wants to plow.

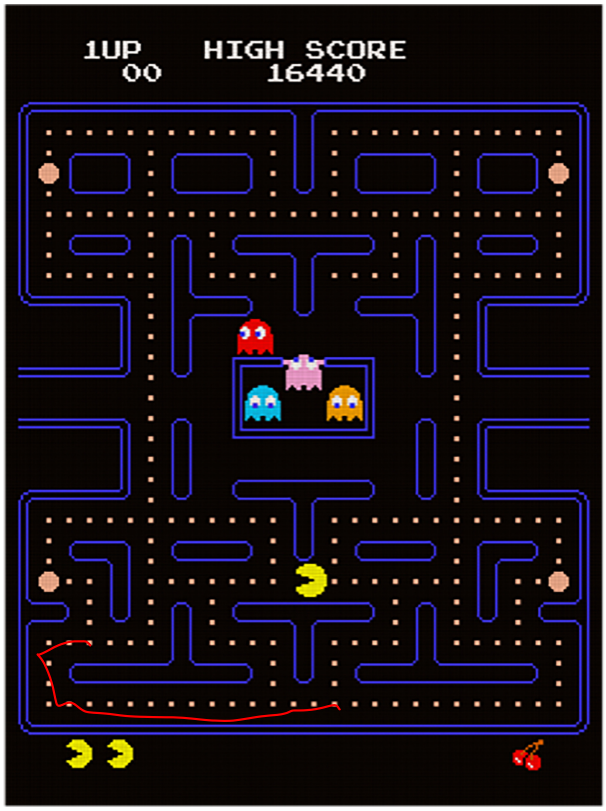
Can we go down each street once & finish where we start? (E. circ.) Not possible!

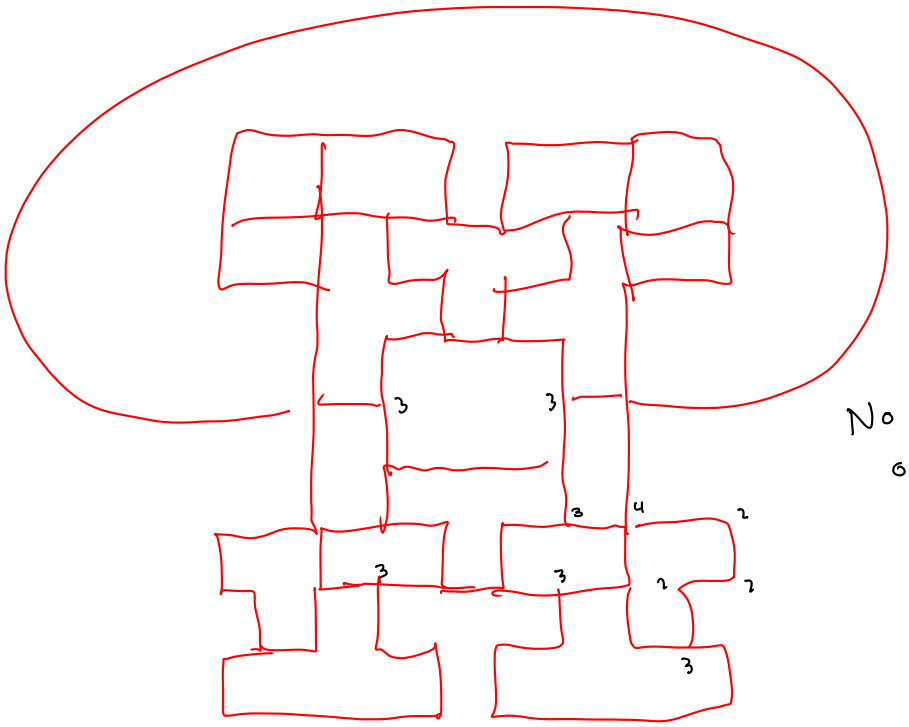
Also not possible if we start & end at different verts.



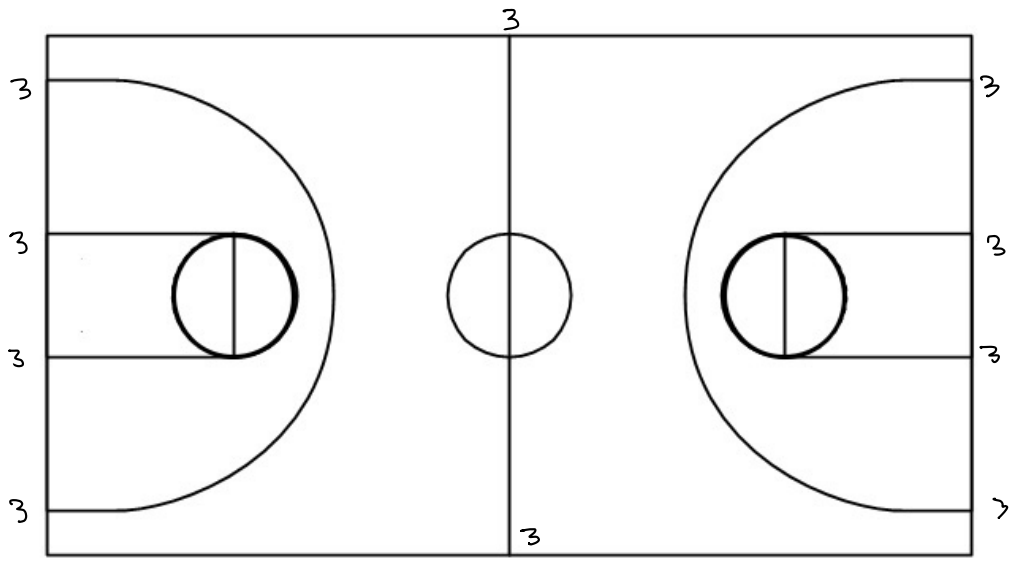
Now, there is an Euler path.







No Euler circ or path.



Can we paint the lines without retracing? NO

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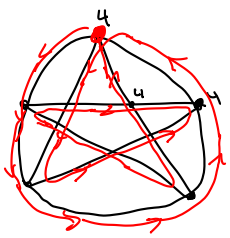
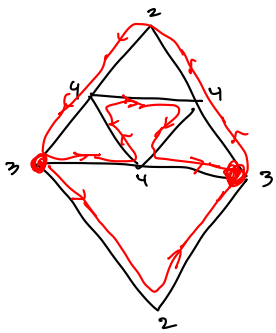
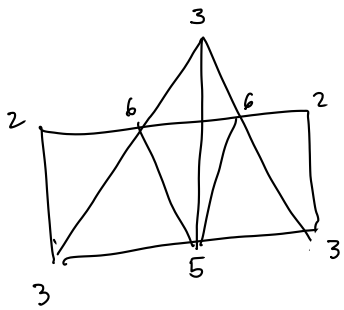
has an E.C





is an E.P.

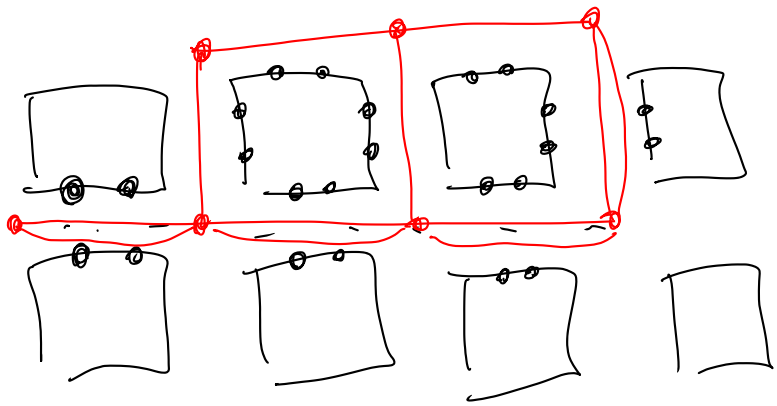


is there a E. circ? E. path?

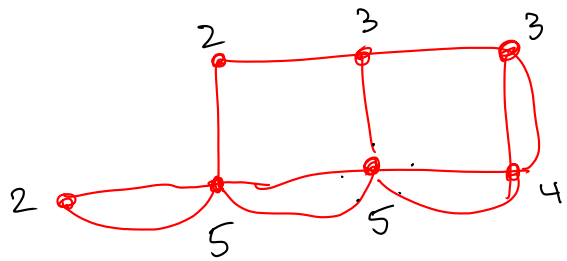
draw it if so.

NO E.C. or E.P.!

Mailman



Can the mail carrier deliver all the mail without extra walking? ← NO



No EC

no EP