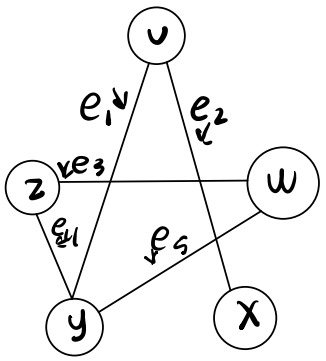
1



x - y are adjacent = 1

row = x

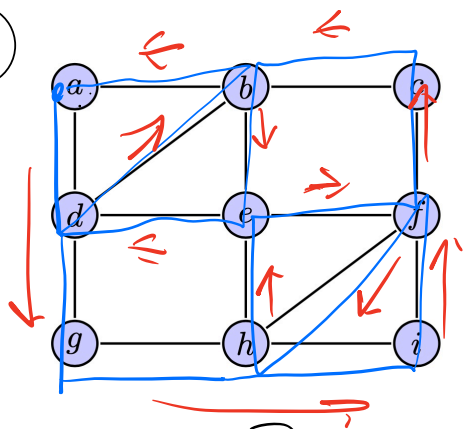
	v	w	x	y	z
v	0	0	1	1	0
w	0	0	0	1	1
x	1	0	0	0	0
y	1	1	0	0	1
z	0	1	0	1	0

Incidence

	e_1	e_2	e_3	e_4	e_5
v	1	1	0	0	0
w	0	0	1	0	1
x	0	1	0	0	0
y	1	0	0	1	1
z	0	0	1	1	0

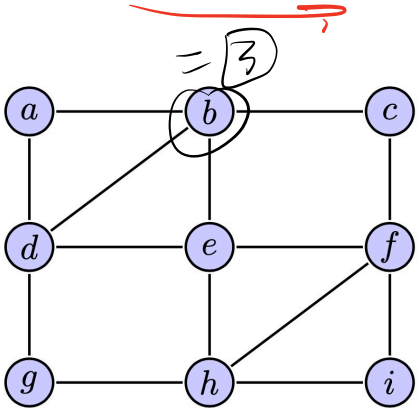
2

A



Yes it is possible

B

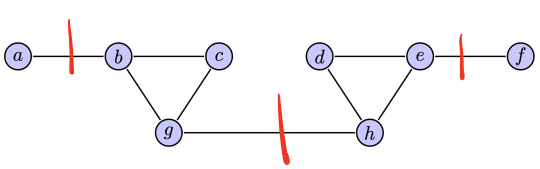


no, not every vertex is even

Ab,gh, et

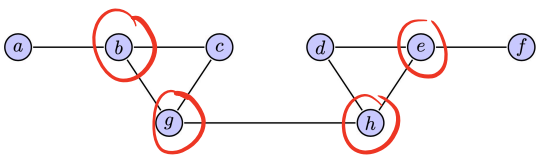
3

A



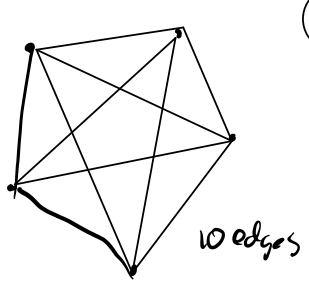
B, G, H, e

B



4

A

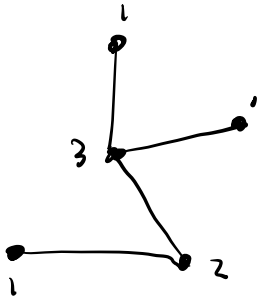


B no, graph A is complete so no more could exist

C

Yes

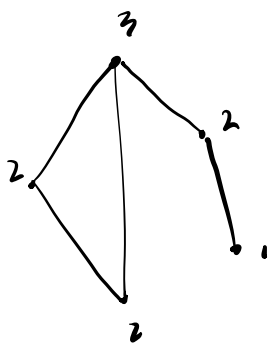
D



sum of degrees $\neq$ 9 not

3 odd num degrees

E



not possible

sum $\neq$ 11

6