

2.4

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DT.

①

Qn: IV

① 7, 6, 5, 4, 4, 3, 2, 1

odd

in this case the no. of degree vertices = 4

and max degree $\Rightarrow n-1 \Rightarrow \underline{\underline{7}}$.we use Havel Hakimi's then;~~7~~ 6 5 4 4 3 2 1~~6~~ 4 3 3 2 1 0~~5~~ 2 2 1 0 0~~4~~ 1 0 0 00 0 0 0Hence this is possible.(ii) ~~6 6 6 6 3 3 2 2~~~~max degree = 6~~~~and no. of odd deg. vertices = 2~~~~6 6 6 6 3 3 2 2~~~~5 5 5 2 2 1 1~~~~4 4 1 1 0 0~~

Spiral

Q: 2

Q: 2

6 6 6 6 3 3 2 2

and max degree = 6
 and no. of odd deg. vertices = 2

Ans:
~~6~~ 6 6 6 3 3 2 2

~~5~~ 5 5 2 2 1 ~~2~~
~~4~~ 4 1 1 1 1

~~3~~ 0 0 0 1
Not possibleQ: 3)

7 6 6 4 4 3 2 2

max. degree = 7

no. of odd = 2

~~7~~ 6 6 4 4 3 2 2

~~5~~ 3 3 2 1 1

~~2~~ 2 2 1 0 1

~~1~~ 1 0 0 0

0 0 0 0
possible

IV - 4

8 7 7 6 4 2 1 1

no. of odd degree vertices = 4 ✓

max degree = 8 X

~~as per~~

max deg. 8 is not allowed because

the max can be 8-1, i.e. 7

Qo; we have only 7 vertices ahead of degree 8.Therefore ~~this~~Not possible