

CSE 102 Spring 2021

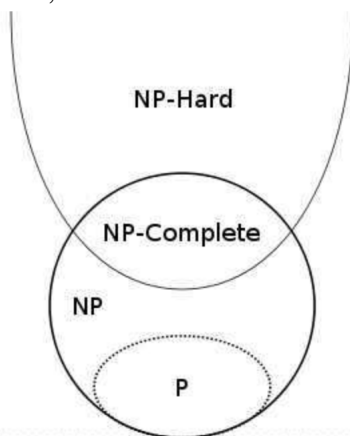
Quiz Reflection 6

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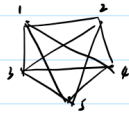
1 Quiz 6

Solution for 1. c): Since the station is not divisible, we don't need exponential number to represent it. Thus, it's false



d): _____ □

Solution for 2. I misunderstand the meaning of the connected graph. So, we need to use the adversary strategy, answer no until it will generate a not connected graph.

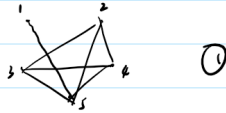


(1, 2) - No

(1, 3) - No

(1, 4) - No

(1, 5) - Yes

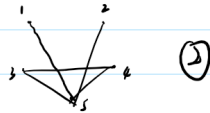


(1)

(2, 3) - No

(2, 4) - No

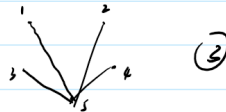
(2, 5) - Yes



(2)

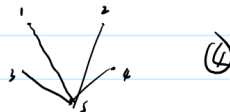
(3, 4) - No

(3, 5) - Yes



(3)

(4, 5) - No

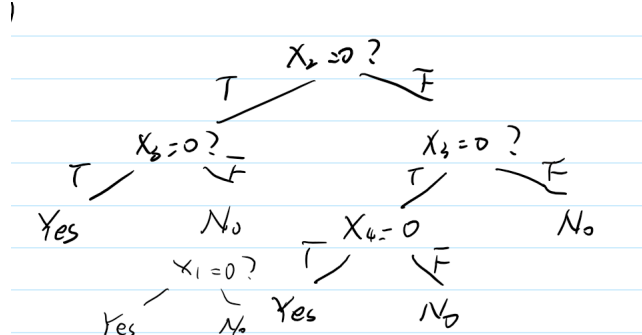


(4)

$\binom{5}{2} = 10$

□

Solution for 4. We need to first peek x_2 (or x_3). Then we need peek at most 3 times.



□

Solution for 5. Since it's real-valued function, we have infinite possibilities.

Assume we have a function $f(x) = 256 \cdot \frac{1}{x}$, this function satisfy the property that $f(x)$ is monotonically decreasing, $f(1)=256$. The strategy is just answer not negative to the gusser then generating the above result which is never negative.

□