Exercise 11-1:

Create an example for which the best solution is always obtained from the greedy set cover algorithm among the three methods (the greedy set cover algorithm, the pricing method, and the LP-based method) where "always" means "independent of the choice of a tie-breaking mechanism in the greedy set cover algorithm, the order of edges in the pricing method, and the choice of a single solution from multiple optimal solutions in the LP-based method".

Exercise 11-2:

Create an example for which the best solution is always obtained from the pricing method among the three method.

Exercise 11-3:

Create an example for which the best solution is always obtained from the LP-based method among the three method.

Important: In the LP-based method, you need to examine all optimal solutions if the LP problem has multiple optimal solutions in order to handle "**always**" in these three exercises.

Exercise 11-2:

Create an example for which the best solution is always obtained from the pricing method among the three method.

Please create a single connected graph instead of a combination of disconnected graphs

[Bad Example]