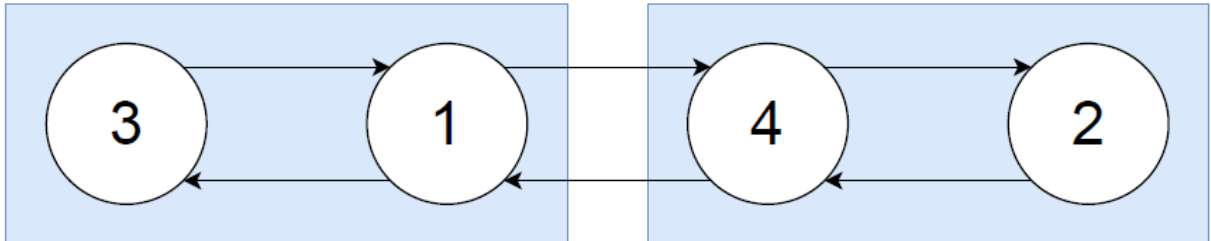# Common Mistakes

Q1

Counter example graph 1:

The above graph is the counter-example graph 1. This graph has a cycle cover, which is shown using the blue boxes. The middle cycle is the cycle consisting of nodes 1 and 4.

Q2

In the question, it has been mentioned that an algorithm with **strongly polynomial** time complexity is expected, and because of that calculation of runtime analysis and proof of correctness are heavily weighted. Marks have been deducted for all the students have failed to explained the above.