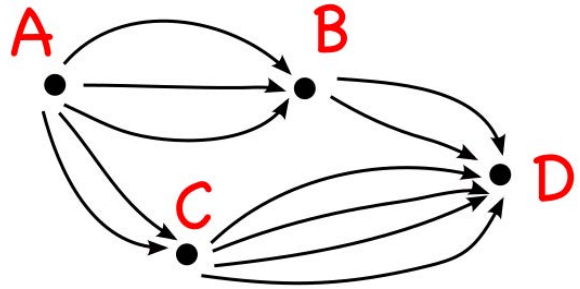


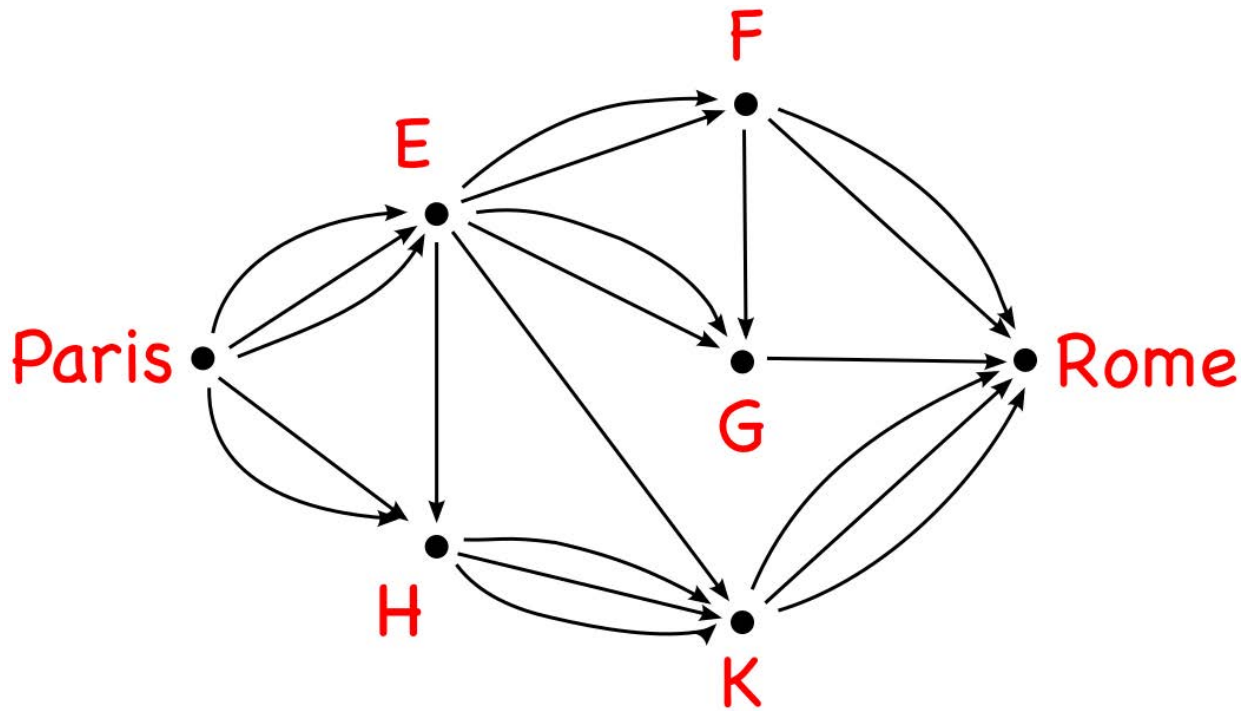
# Puzzle of the Week

## *All Roads Lead to Rome – 2*

This map shows a collection of one-way roads going between cities A, B, C, and D. To get from A to D you can either go through B or C. There are  $3 \times 2 = 6$  ways of going from A to D if you go through B. There are  $2 \times 4 = 8$  ways of going from A to D if you go through C. Therefore, there are a total of  $6 + 8 = 14$  ways of going from A to D.



**THE CHALLENGE:** Here is a complicated pretend map of one-way roads leading from Paris to Rome. How many possible routes are there?



**EXPLORATION:** Why does this puzzle not work using two-way roads? Make some fun maps for your friends to puzzle over.