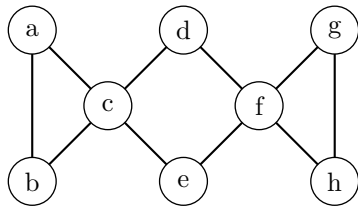


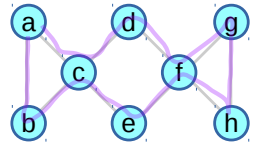
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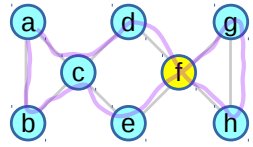
## 1 Eulerian Cycles

다음은 [math.stackexchange.com](https://math.stackexchange.com)에 있는 Eulerian Cycle에 관한 문제이다. 수업 시간에 공부한 Fleury 알고리즘을 사용하여 node a에서 시작하는 모든 Euler Cycle들을 찾으시오. (4개)

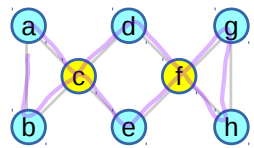




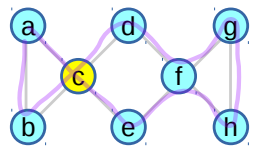
acdfghfecb



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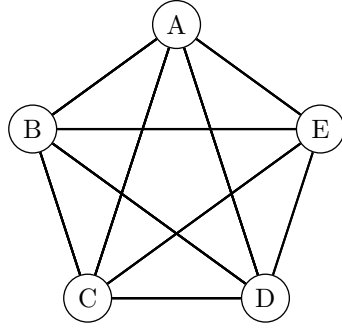
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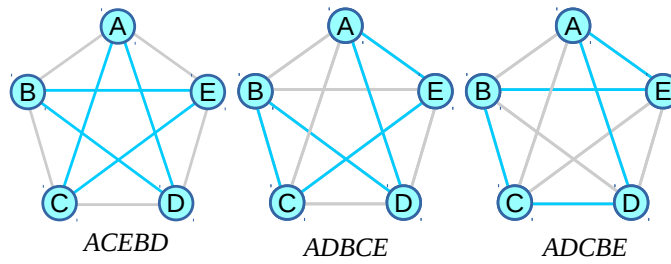
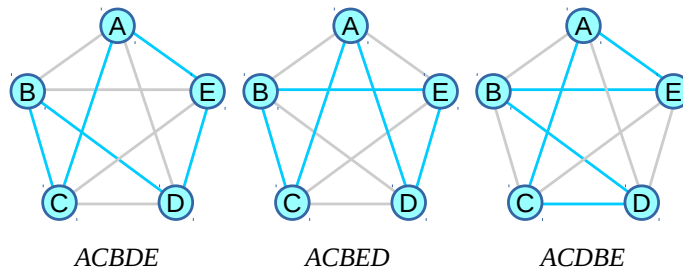
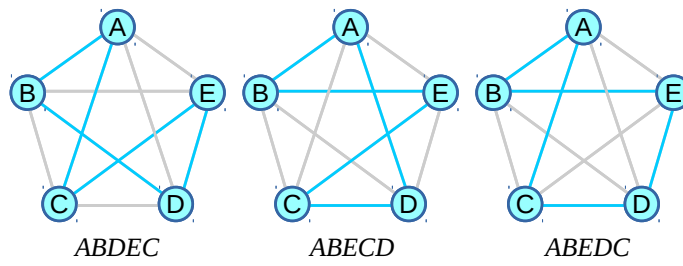
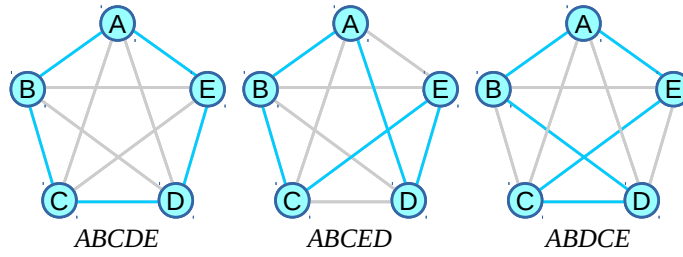


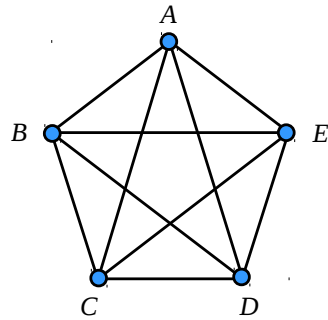
acefhgfdcb

## 2 Hamiltonian Cycles

다음 graph에 대하여 node A에서 시작하는 모든 Hamiltonian Cycle을 찾으시오.







$$\frac{(5-1)!}{2} = \frac{24}{2} = 12$$

[https://en.wikipedia.org/wiki/Hamiltonian\\_path](https://en.wikipedia.org/wiki/Hamiltonian_path)

ABCDE  
 ABCED  
 ABDCE  
 ABDEC  
 ABECD  
 ABEDC

ACBDE  
 ACBED  
 ACDBE  
 ACDEB  
 ACEBD  
 ACEDB

ADBCE  
 ADBEC  
 ADCBE  
 ADCEB  
 ADEBC  
 ADECB

AEB CD  
 AEBDC  
 AECBD  
 AECDB  
 AEDBC  
 AEDCB

ABCDE  
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 ABDCE  
 ABDEC  
 ABECD  
 ABEDC

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