The HW for R/F has two questions:  
  
1.  Given a dodecahedron, what is the most number of faces that you could select and still have no common edge between any pair of faces.  You should be able to illustrate your solution based on what your program prints out.  For example, on a 2D representation of a dodecahedron, you could mark those pentagons that form the independent set of faces you find.  Another possibility is display (or somehow completely describe) your indexing scheme for the pentagon, and then state the indeces for a largest independent set.  Your program does not need to do the drawing, but you should be able to determine the meaning of your program's output  
  
2.  What is the fewest number of colors needed to color a dodecahedron?  No two regions that share a common edge are allowed to have the same color.  As with the prior problem, you should indicate the coloring that you find, not just the size.  
  
  
The script for both of the problems should take a command line argument, namely a size, and the script should try to find an answer for that size.  For example, you might do  
python IndependentSet.py 2  
whereupon your script would return an independent set of size two (two opposite faces, for example).  
But if you did  
python IndependentSet.py 21  
your script would print out Not possible  
  
  
Both scripts follow the bruteForce outline as before.  
You only need to find the appropriate sets (there are 12 of them, and they are the same for both problems),  
and create the test for when a puzzle is invalid.  
Note that finding the next position to fill out is as simple as

pos = pzl.find(".")   
  
Good luck,  
Dr. G