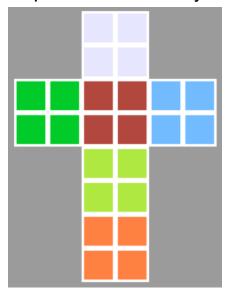


Rubik's Cube Solving Challenge

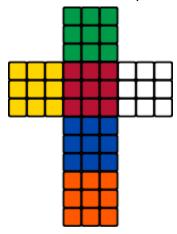
<u>HumanEd</u> is the Humanoid Robotics Society of UoE. One of our subprojects aims to solve Rubik's Cubes using a Biomimetic Hand. As inspiration coming from our project, we have decided to prepare a Rubik's Cube painting challenge!

Amongst the templates provided, you'll find a script that, when run, outputs a net of a 2 by 2 rubiks cube as shown below.



Task 1

Your first task is to convert that script from a 2x2 rubiks cube printer to a 3x3 rubiks cube printer. As such your output should be something like the below (the colours don't matter)



!!!Using a ready-to-use printer is not permitted. Python can go "brrr" without "pip install [InsertPrinterName]"!!!

Task 2

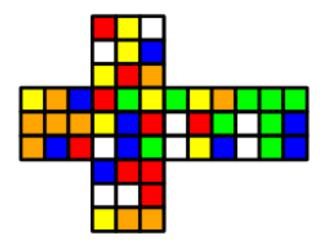
The second task is to adjust the script so it accepts a string and prints out a cube with the coloration matching that which the string dictates. Each character in the string corresponds to a colour. Each index of the string corresponds to a position on the cube. The correspondence of the indices to the cube is shown below, on the next page (the net is rotated 90 degrees).

You should also adjust the colours to suit the colors listed below as well:

Color representation:

EXAMPLE

exampleCube =
"rywwybyroyoboooobrrgyybrwbggyowrgwybgggwgbwgbbrrwwryoo"



Broken down into each cube panel this input would be "rywwybyro,yoboooobr,rgyybrwbg,gyowrgwyb,gggwgbwgb,brrwwryoo" bare in mind that this input would not come in this format, only in the format shown in exampleCube