Personal Tutor Session: Tutor Group Challenge

The Aim of this session is for students to work together to develop tactics and code to win the revered COMSC 1st year Tutor Group **Rock Paper Scissors** competition.

The Task is to complete the python code stubs in order to win the Rock Paper Scissors Knockout Tournament. There will be a small prize for the Tutor Group that submits the winning file.

In the knockout tournament pairs of solutions will play a game against each other, the winner of that game will go forward to the next level. A game consists of 1000 rounds of RPS. In each round all preceding moves, from the current game, will be passed to both solution's move function.

The tournament will be automated and a "match.py" along side two example contender files, rock.py and paper.py, are provided for you to experiment with. This match file is indicative of how the tournament will be run. A draw is decided on the "flip of a coin".

The Code: You must write a python (version 3.6) file with 2 functions:

1) name()
2) move(myMoves, opMoves)

The name() function will return your student number (cxxxxxxx).
A move is defined by the string "R", "P", or "S".
The move(myMoves, opMoves) function, will take 2 lists as parameters: a list of all your previous moves in the game (e.g. ["R","R","S","P"]), and a list of all your opponent's moves (defined in the same way). The function will then return a string indicating your move.

The Rules:

- Multiple entries per tutor group are allowed but each student may enter only once.
- Each student entry represents their tutor group.
- This is for fun and honour, not grades.
- Any printing to the console will result in disqualification.
- If your function behaves in an un-sportsperson-like manner, it MAY be removed from the tournament (but you MAY get an honourable mention ☺) this will be at the judge's discretion
- Any modification of: the Match or Tournament code / instance; or the contents of the tournament directory is **strictly** forbidden.
- Any prizes will be awarded to the tutor group.
- Submission of your solution file will be via Learning Central, the COMSC-SCHOOL Module, under the assignment Yr1 RPS Challenge.