ELECTRICAL PROBLEM

DESCRIPTION

The diagram below shows three lamps and two switches.
The two switches are interlocked so that when switch one is in position 1 then switch two is in the same position, and so on for all the other switch positions.

PROBLEM

The problem is to complete the wiring so that in position 1, lamp 1 is illuminated.
In position 2, lamp 2 is illuminated. In position 3, lamp 3 is illuminated
and in position 4, all three lamps are illuminated.

NOTES

The problem can be solved using connecting wires only.
All the lamps must be at full brightness when on.
There are no diodes, resistors or any other items apart from lengths of connecting wire.

Name: .....

