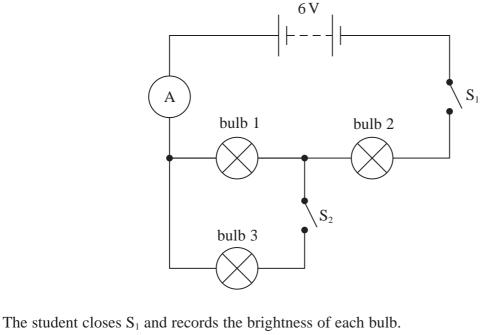
A student connects three identical 3 V bulbs to a 6 V battery of negligible internal resistance. The circuit includes two switches,  $S_1$  and  $S_2$ , as shown.



With  $S_1$  still closed, the student closes  $S_2$ .

Explain how the brightness of bulb 1 compares with the brightness of bulb 2 before and

after  $S_2$  is closed.