39. Wen Xiong wanted fo set up.a circuit to light up a hall using two special switches.  
  
Switch 1 can be tured to positions A or B and switch 2 can be tumed to  
. positions Cor D. :  
  
He set up the circuit so that the bulb will be lit as described in the table below.  
  
| Position of switch  
  
|\_\_\_\_ Switch | Switch | Bulb Xis fit  
  
Po A es  
  
Po BN  
  
Po BN

(a) The diagram below shows part of the circuit. Complete the circuit so that  
it will work as described. {2}

fe .  
| (b)\_ fone more bulb is added to the circuit in series, how would it affect the  
Sa brightness of bulb xX? me (1)