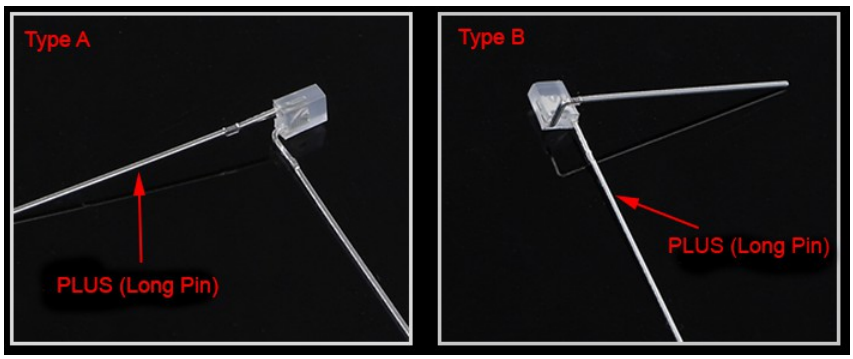
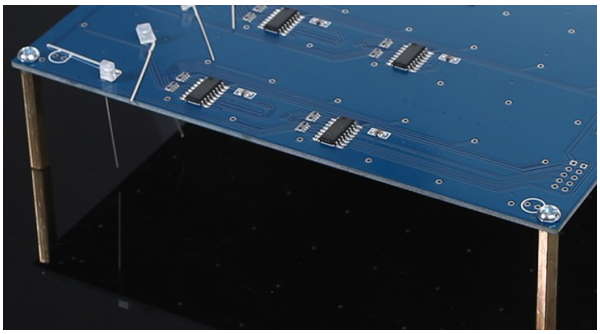
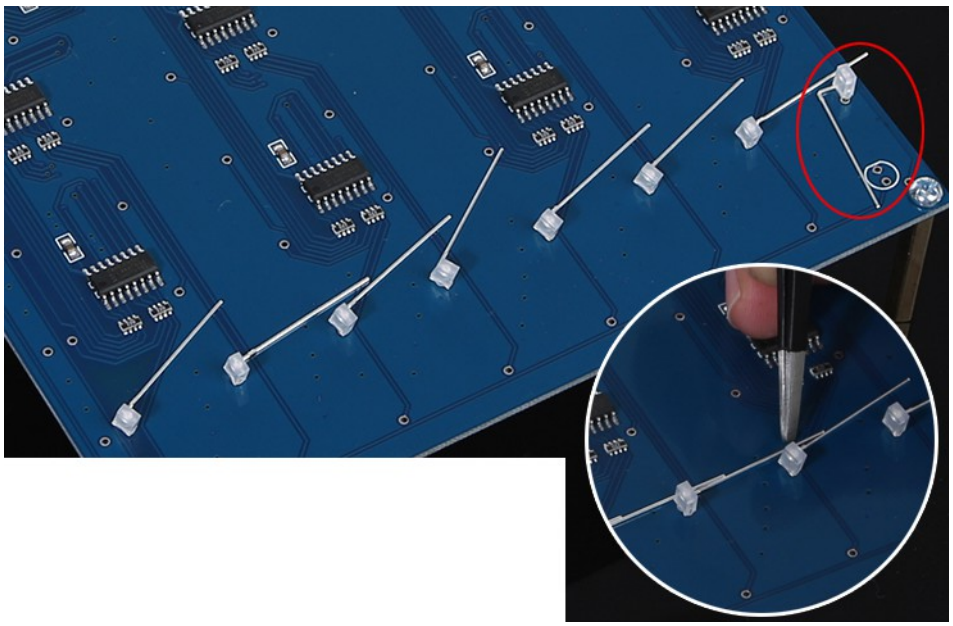
Prepare the LEDs:
448 LEDs need to be bended as shown on the left picture (Type A)
64 LEDs need to be bended as shown on the right picture (Type B)



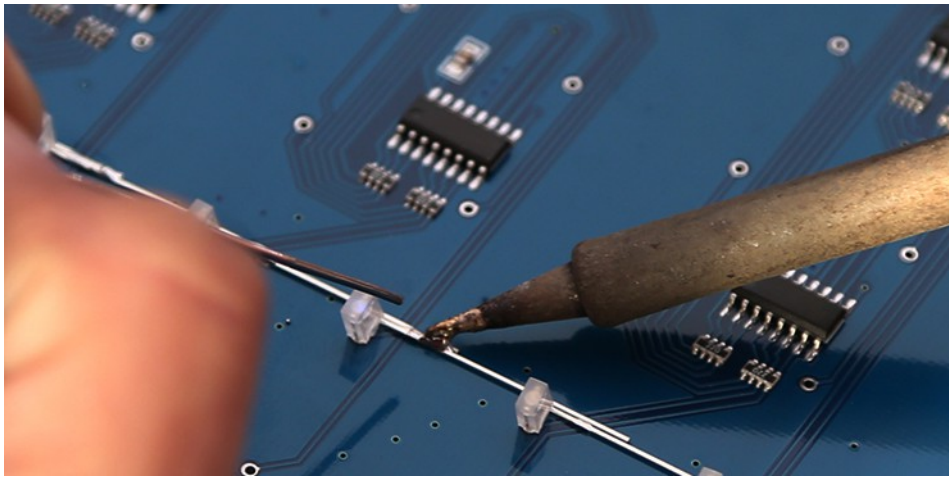
The PCB will serve as a table as well as the template to solder the LEDs. Attach the feets as shown on the picture:



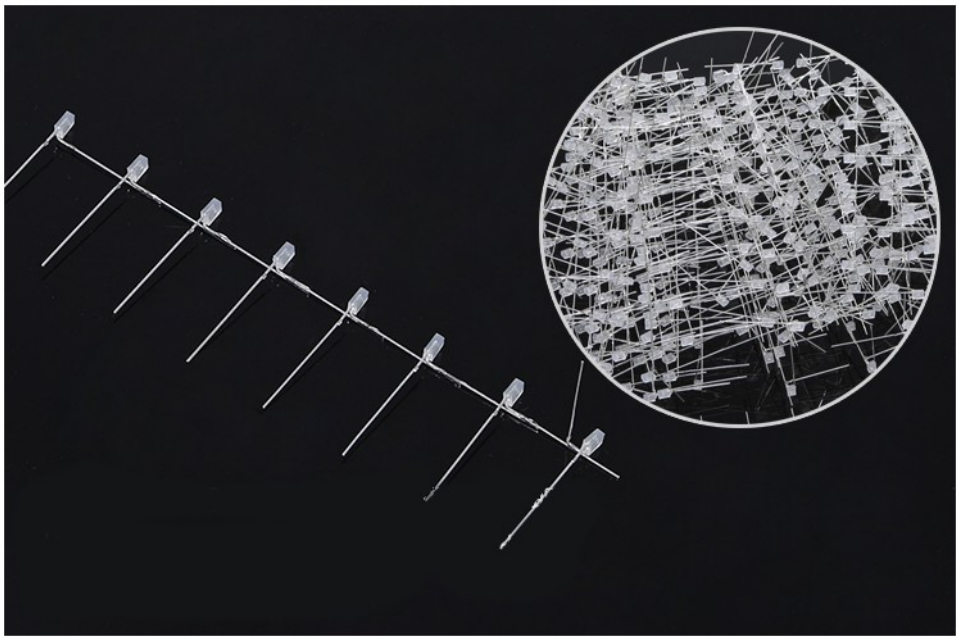
Take 7 of the Type A and one of the Type B Leds and put them on the PCB as shown. DO NOT SOLDER THEM TO THE PCB! The PCB only serves as a template!



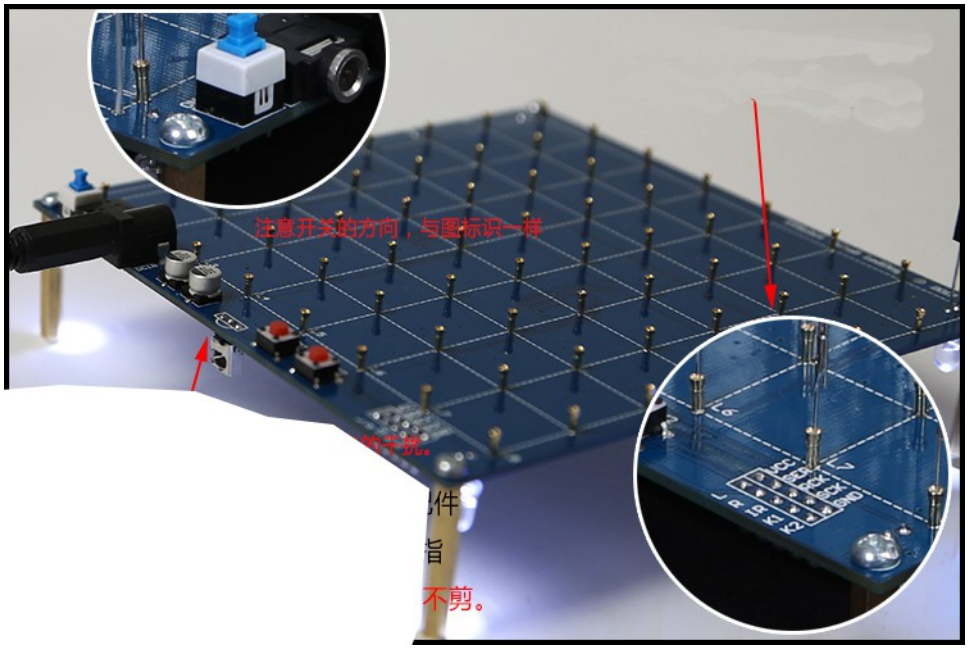
Solder the LEDs together as shown on the picture – DO NOT SOLDER THE LEDS TO THE PCB!



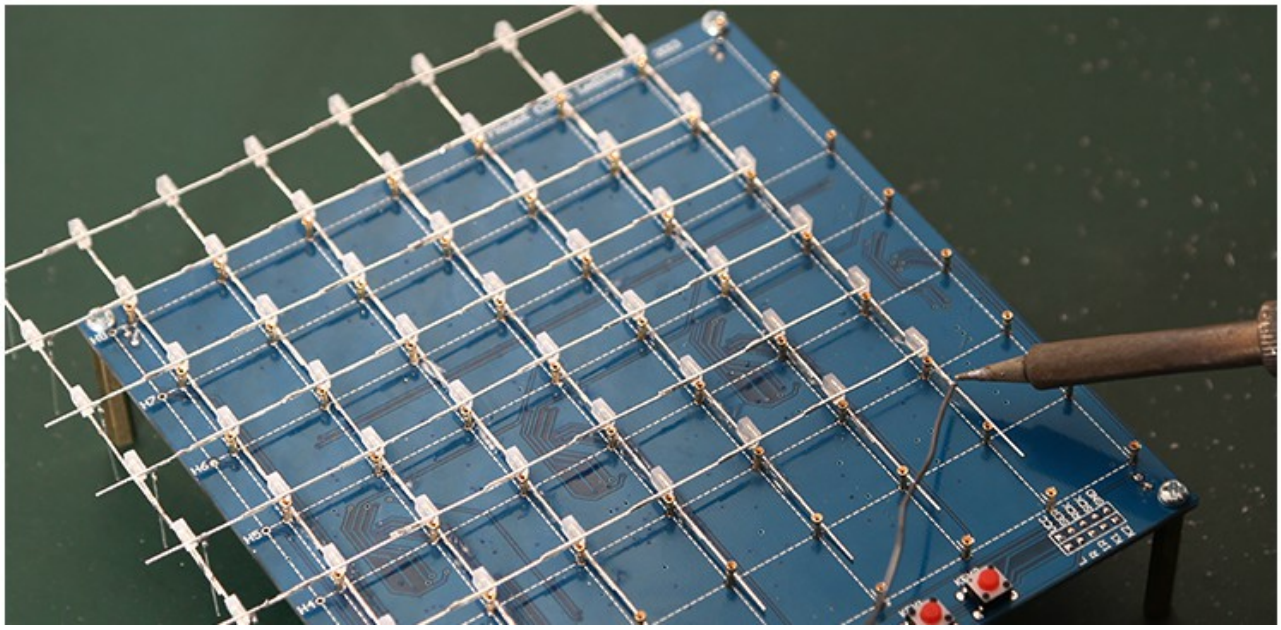
All in all, you need to make **64** of those LEDs-Strands!



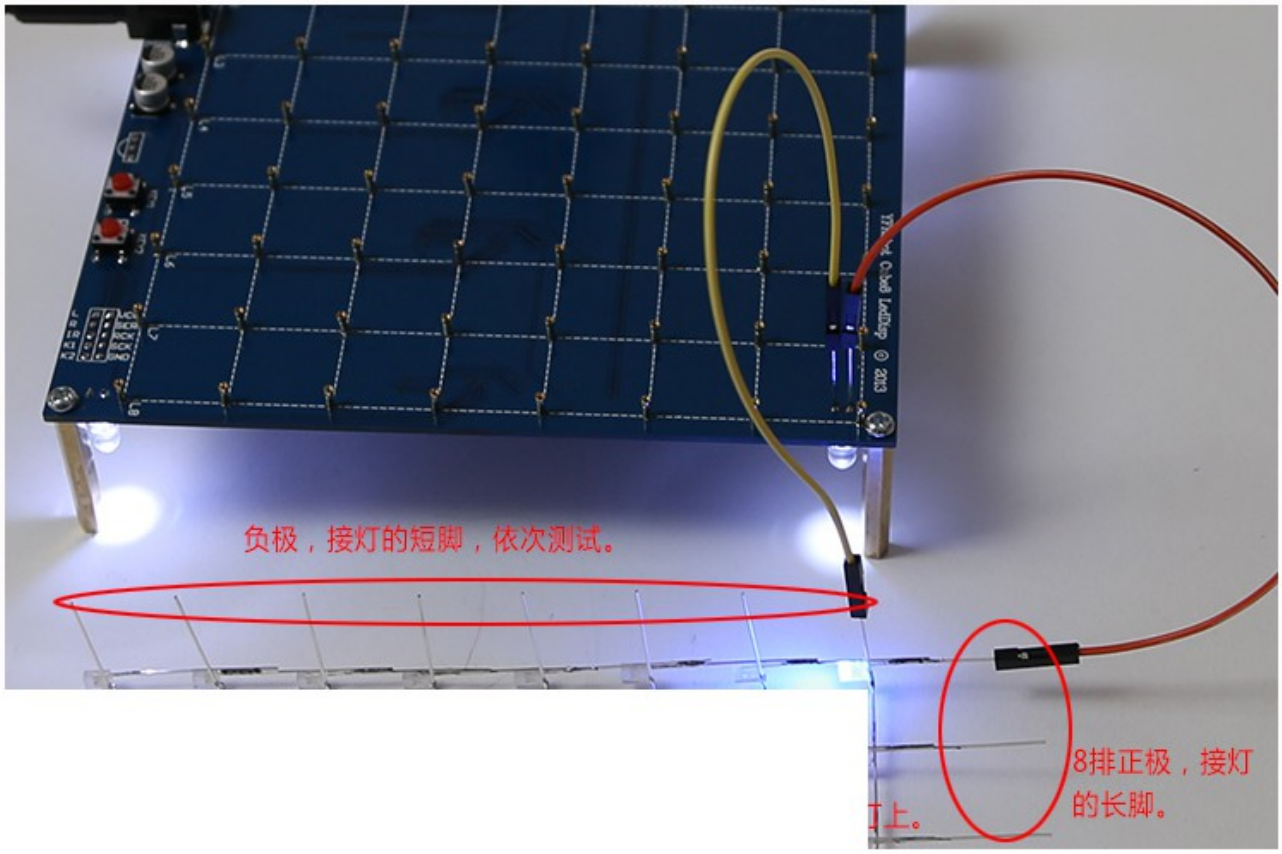
Add the missing components to the PCB. Take care of the orientation of the Button!



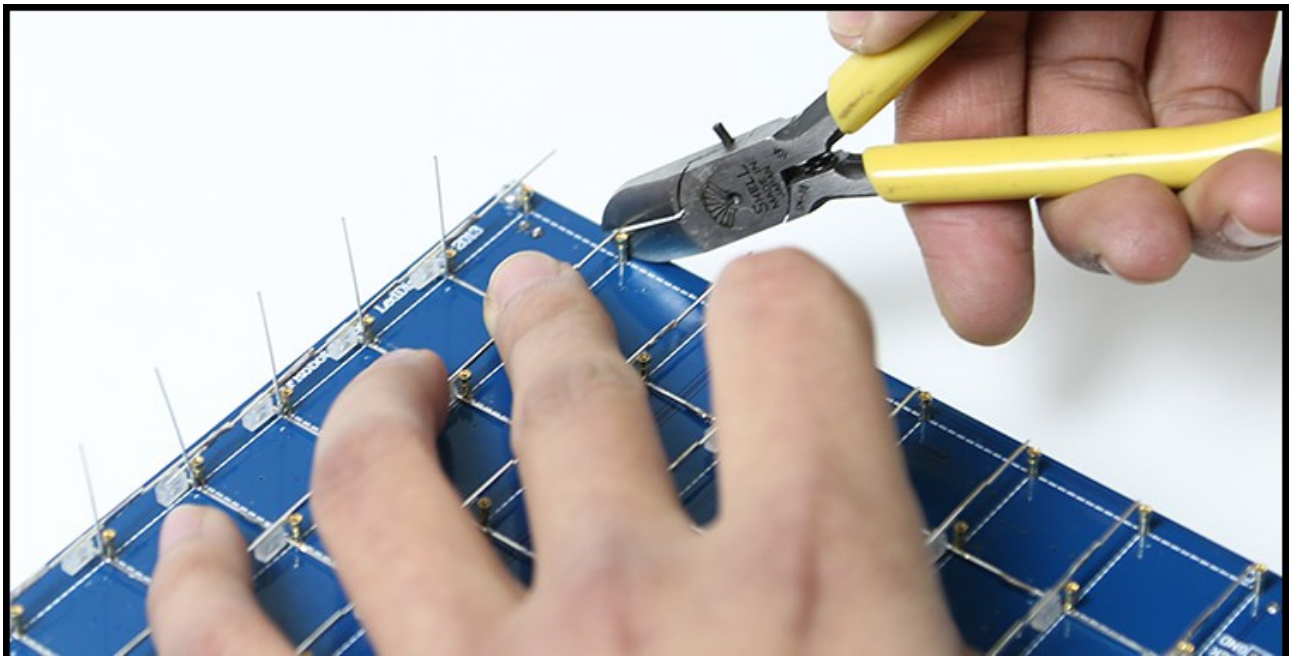
Take 8 of the 64 Strands you created to create the „Net“ as shown below. You need to create 8 of those 8x8 nets:



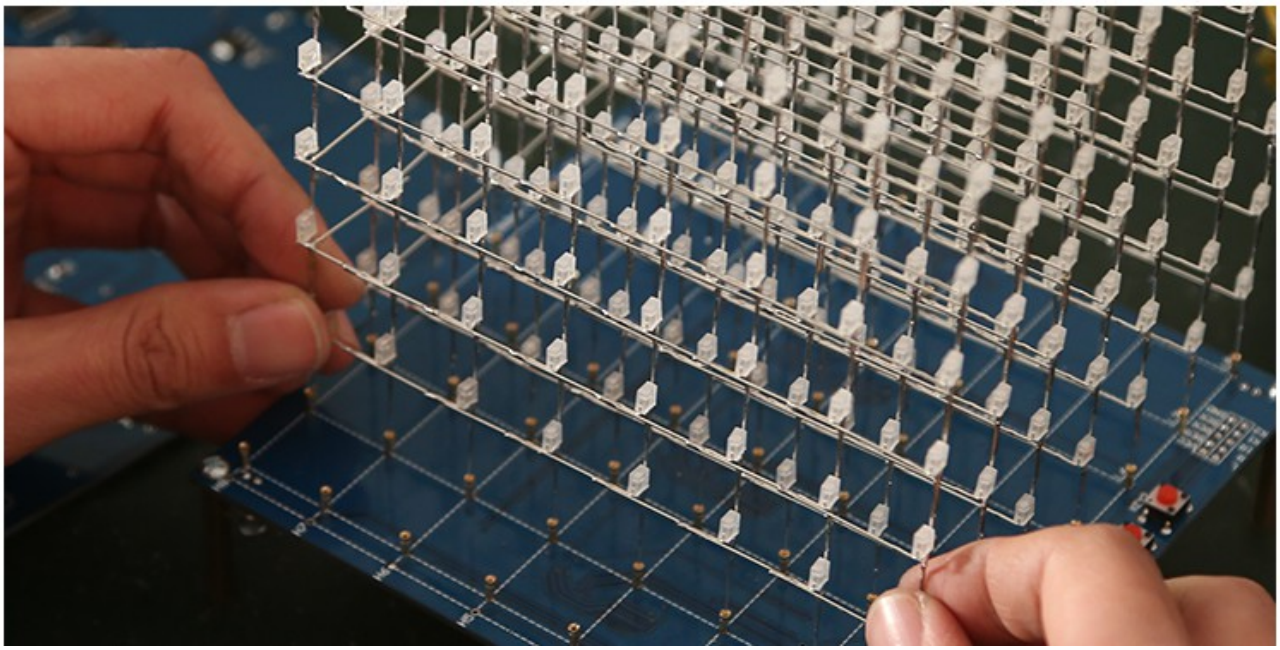
Apply Power to the PCB and attach the Net as shown – by attaching the wire on each row and each columns you can verify if all the LEDs are soldered correctly!



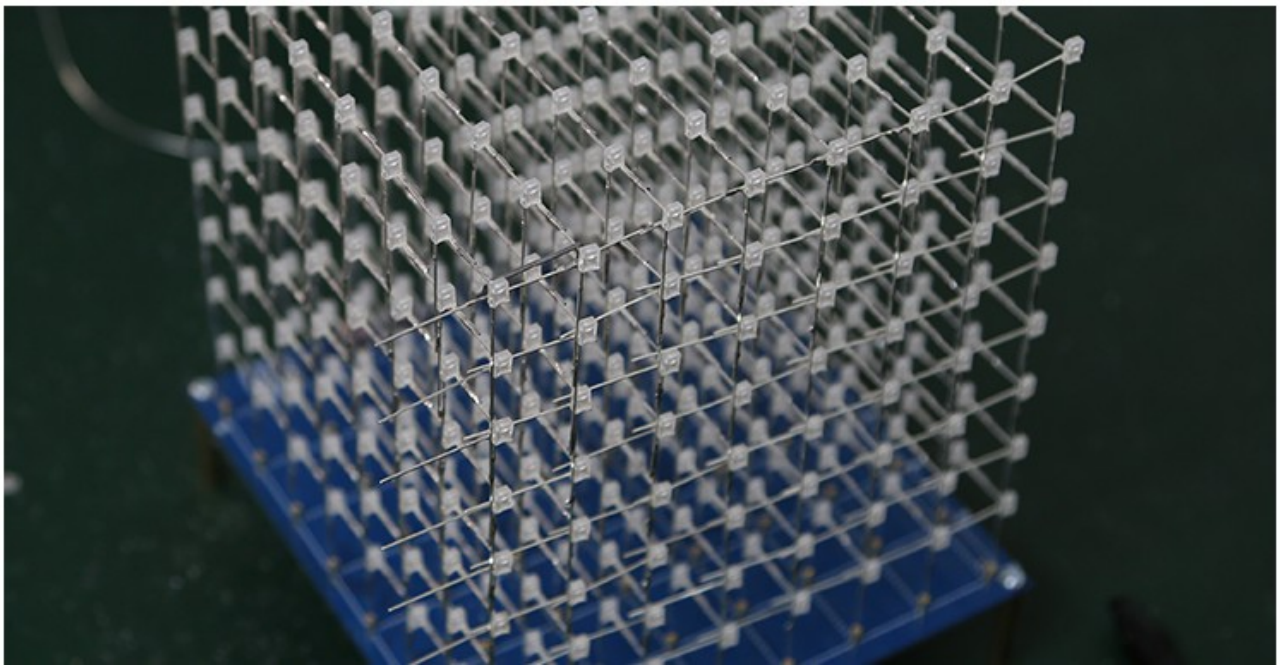
Cut of the wire on one side of the Net as shown on the picture



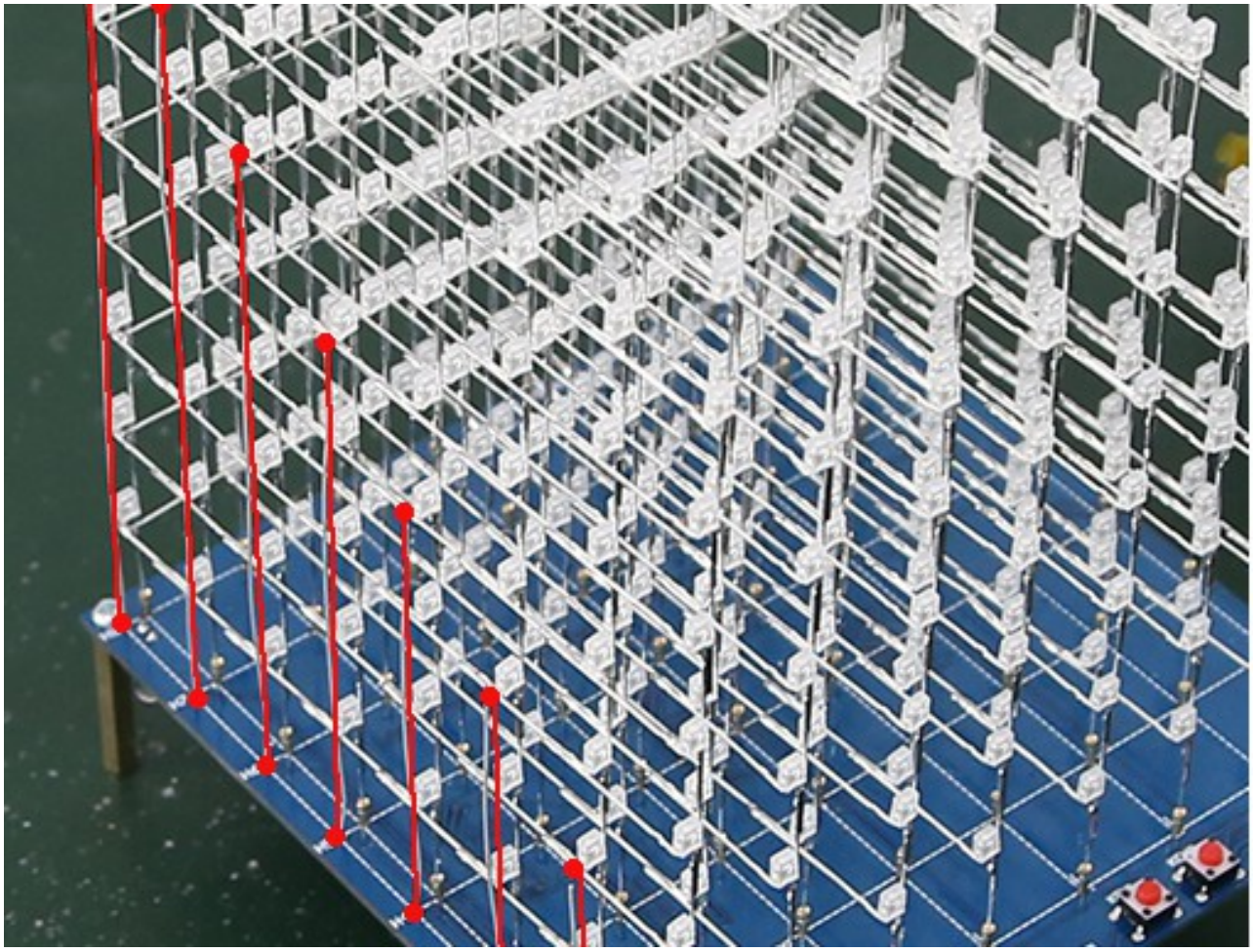
Plug all the LED Nets into the PCB



Solder together the „Type B“ - LEDs as shown on the picture, and cut off the unneeded wires.



Connect the rows, row 1 to H1, row2 to H2 ..... row 8 to H8



That's it – the LED Cube is ready!