Four is Better than Five Final Project Proposal

You are Central City’s most decorated hotshot bomb diffuser. It is 2:03 am and the sheriff station has received an anonymous phone call about a bomb beneath the Central City Bank that is set to go off in T-minus 30 minutes. Unfortunately, you are 29 minutes away from the potential ground zero. You arrive on the scene with just a minute to spare.

The bomb consists of a weathered keypad, a menacing countdown timer, and a puzzling LCD screen with a message on the screen. “This is a numbers game. Four is Better than Five. Your first clue is…”

Each solved clue will reveal one after the other. You must solve three puzzles in one minute to diffuse the bomb. Answer wrong and the time decreases. Diffuse the bomb successfully and the countdown stops.

BOM

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| **Name** | **Quantity** | **Price** | **Link** |
| 2pcs Matrix Array 4x4 16 Keys Membrane Switch 8 pins connector Switch Keypad for Arduino/AVR/PIC | 1 | $6.79 | [https://www.amazon.com/Matrix-Membrane-Switch-connector-Arduino/dp/B01FDEIT0U/ref=asc\_df\_B01FDEIT0U/?tag=hyprod-20&linkCode=df0&hvadid=167141218295&hvpos=1o1&hvnetw=g&hvrand=825830414093383079&hvpone=&hvptwo=&hvqmt=&hvdev=c&hvdvcmdl=&hvlocint=&hvlocphy=9014231&hvtargid=pla-308935520285&psc=1](https://urldefense.proofpoint.com/v2/url?u=https-3A__www.amazon.com_Matrix-2DMembrane-2DSwitch-2Dconnector-2DArduino_dp_B01FDEIT0U_ref-3Dasc-5Fdf-5FB01FDEIT0U_-3Ftag-3Dhyprod-2D20-26linkCode-3Ddf0-26hvadid-3D167141218295-26hvpos-3D1o1-26hvnetw-3Dg-26hvrand-3D825830414093383079-26hvpone-3D-26hvptwo-3D-26hvqmt-3D-26hvdev-3Dc-26hvdvcmdl-3D-26hvlocint-3D-26hvlocphy-3D9014231-26hvtargid-3Dpla-2D308935520285-26psc-3D1&d=DwMFaQ&c=OAG1LQNACBDguGvBeNj18Swhr9TMTjS-x4O_KuapPgY&r=G5T6BYcQvwgRe3jninhlKWhuJW1XWM70WX9c9znuV_k&m=-8xKiQMEdvtFEqFR1jER6f_-uBtrfrYOvSZWSd1r0J8&s=MmwcIuhjZ0DIgzTyKBNEuvdU869l0yrvozghTeCVlj8&e=) |
| microtivity IS111 7-segment LED Display, 1 Digit Red Common Cathode (Pack of 4) | 1 | $5.99 | [https://www.amazon.com/microtivity-7-segment-Display-Common-Cathode/dp/B004S95VJE/ref=sr\_1\_4?ie=UTF8&qid=1530629592&sr=8-4&keywords=7+segment+display](https://urldefense.proofpoint.com/v2/url?u=https-3A__www.amazon.com_microtivity-2D7-2Dsegment-2DDisplay-2DCommon-2DCathode_dp_B004S95VJE_ref-3Dsr-5F1-5F4-3Fie-3DUTF8-26qid-3D1530629592-26sr-3D8-2D4-26keywords-3D7-2Bsegment-2Bdisplay&d=DwMFaQ&c=OAG1LQNACBDguGvBeNj18Swhr9TMTjS-x4O_KuapPgY&r=G5T6BYcQvwgRe3jninhlKWhuJW1XWM70WX9c9znuV_k&m=-8xKiQMEdvtFEqFR1jER6f_-uBtrfrYOvSZWSd1r0J8&s=PaDl_84gELoa7JPKGMPmZdFRk3g82VrLWtdRHZoXcio&e=) |
| LEDs | X | N/A | <https://www.amazon.com/EDGELEC-200pcs-Emitting-Assorted-Resistors/dp/B077XBFZH9/ref=sr_1_2_sspa?s=industrial&ie=UTF8&qid=1530630200&sr=1-2-spons&keywords=leds&psc=1> |