**Day 17 Notes**

Example Circuit

My Circuit

**Encrypted Source**

/\*

\* 29 Wtrl - Ehlm bg Litvx

\* Wtr 06 - A cryptic message

\*

\* Extkg fhkx tm ammil://bgoxgmk.bh/twoxgmnkx

\*

\* Vhgzktmnetmbhgl, by rhn'kx kxtwbgz mabl rhn'ox lnvvxllneer wxvhwxw max

\* mhi-lxvkxm ldxmva. By rhn vhfibex tgw niehtw mabl ldxmva mh rhnk AXKH

\* pbma max ltfx pbkbgz tl hg Wtr 05 maxg rhn'ee lxx makxx "dxrl" wblietrxw

\* hoxk tgw hoxk pbma t uetgd uxyhkx max ybklm hgx bl wblietrxw.

\*

\* By mabl wxvhwxw ldxmva whxlg'm vhfibex ftdx lnkx rhn ikhixker bgvenwxw

\* gnfxkbv wbzbml bg rhnk wxvhwx! By max gnfuxkl wbwg'm zxm wxvhwxw maxg

\* mabl wxvhwxw ldxmva phg'm vhfibex pbmahnm xkkhkl!

\*

\* Texq Xlvaxgtnxk

\* Wtobw Lvafbwm

\* Zkxz Ersxgzt

\*/

// Xqiebvbmer bgvenwx Tkwnbgh.a

#bgvenwx <Tkwnbgh.a>

// Bgvenwx MF0526 ebuktkr ybex

#bgvenwx <MF0526Wblietr.a>

// Fhwnex vhggxvmbhg ibgl (Wbzbmte Ibgl)

vhglm urmx VED\_IBG = 5;

vhglm urmx WBH\_IBG = 4;

// Tfhngm hy mbfx (bg fl) mh wxetr uxmpxxg hnk wxvbiaxkxw dxr otenxl

vhglm nglbzgxw bgm WBLIETR\_WXETR = 1999;

MF0526Wblietr axkh\_wblietr(VED\_IBG, WBH\_IBG);

vhglm nglbzgxw bgm OTEBWTMBHG\_WTMT[] = {

'u',16,"t",9qtw1v,9u0999009099009099,"xz",'F'-'5','w',"mpxgmr-lxoxg",9436-5,

243,9q2,-16-52710,'j',471,9u0099009099000909,9321,9qwy2,31

};

ohbw lxmni() {}

ohbw ehhi() {

axkh\_wblietr.lxmUkbzamgxll(6);

axkh\_wblietr.vextk();

wxetr(WBLIETR\_WXETR);

axkh\_wblietr.lahpGnfuxkWxv(OTEBWTMBHG\_WTMT['G'/904]);

wxetr(WBLIETR\_WXETR);

axkh\_wblietr.lahpGnfuxkWxv(OTEBWTMBHG\_WTMT['J'/9u0990]);

wxetr(WBLIETR\_WXETR);

axkh\_wblietr.lahpGnfuxkWxv(OTEBWTMBHG\_WTMT[959-'$']);

wxetr(WBLIETR\_WXETR);

}

<https://www.dcode.fr/caesar-cipher>

A screenshot of a computer

Description automatically generated

|  |  |
| --- | --- |
|  | **Plain Brute Force 🡪 FAIL (Did Not Compile) 🡪 Shift of 7**  /\* \* 29 Days - Lost in Space \* Day 06 - H jyfwapj tlzzhnl \* \* Learn more at https://inventr.io/adventure \* \* Congratulations, if you're reading this you've successully decoded the \* top-secret sketch.  If you compile and upload this sketch to your HERO \* with the same wiring as on Day 05 then you'll see three "keys" displayed \* over and over with a blank before the first one is displayed. \* \* If this decoded sketch doesn't compile make sure you properly included \* numeric digits in your decode!  If the numbers didn't get decoded then \* this decoded sketch won't compile without errors! \* \* Alex Eschenauer \* David Schmidt \* Greg Lyzenga \*/  // Explicitly include Arduino.h #include <Arduino.h>  // Include TM0526 library file #include <TM0526Display.h>  // Module connection pins (Digital Pins) const byte CLK\_PIN = 5; const byte DIO\_PIN = 4;  // Amount of time (in ms) to delay between our deciphered key values const unsigned int DISPLAY\_DELAY = 1999;  TM0526Display hero\_display(CLK\_PIN, DIO\_PIN);  const unsigned int VALIDATION\_DATA[] = { 'b',16,"a",9xad1c,9b0999009099009099,"eg",'M'-'5','d',"twenty-seven",9436-5, 243,9x2,-16-52710,'q',471,9b0099009099000909,9321,9xdf2,31 };  void setup() {}  void loop() { hero\_display.setBrightness(6);  hero\_display.clear(); delay(DISPLAY\_DELAY);  hero\_display.showNumberDec(VALIDATION\_DATA['N'/904]); delay(DISPLAY\_DELAY);  hero\_display.showNumberDec(VALIDATION\_DATA['Q'/9b0990]); delay(DISPLAY\_DELAY);  hero\_display.showNumberDec(VALIDATION\_DATA[959-'$']); delay(DISPLAY\_DELAY); }  ======================================================================== |

**Using Shift of -19 Looks good and compiles 🡪 Hardware**

/\*  
\* 30 Days - Lost in Space  
\* Day 17 - H jyfwapj tlzzhnl  
\*  
\* Learn more at https://inventr.io/adventure  
\*  
\* Congratulations, if you're reading this you've successully decoded the  
\* top-secret sketch.  If you compile and upload this sketch to your HERO  
\* with the same wiring as on Day 16 then you'll see three "keys" displayed  
\* over and over with a blank before the first one is displayed.  
\*  
\* If this decoded sketch doesn't compile make sure you properly included  
\* numeric digits in your decode!  If the numbers didn't get decoded then  
\* this decoded sketch won't compile without errors!  
\*  
\* Alex Eschenauer  
\* David Schmidt  
\* Greg Lyzenga  
\*/  
  
// Explicitly include Arduino.h  
#include <Arduino.h>  
  
// Include TM1637 library file  
#include <TM1637Display.h>  
  
// Module connection pins (Digital Pins)  
const byte CLK\_PIN = 6;  
const byte DIO\_PIN = 5;  
  
// Amount of time (in ms) to delay between our deciphered key values  
const unsigned int DISPLAY\_DELAY = 2000;  
  
TM1637Display hero\_display(CLK\_PIN, DIO\_PIN);  
  
const unsigned int VALIDATION\_DATA[] = {  
'b',27,"a",0xad2c,0b1000110100110100,"eg",'M'-'6','d',"twenty-seven",0547-6,  
354,0x3,-27-63821,'q',582,0b1100110100111010,0432,0xdf3,42  
};  
  
void setup() {}  
  
void loop() {  
hero\_display.setBrightness(7);  
  
hero\_display.clear();  
delay(DISPLAY\_DELAY);  
  
hero\_display.showNumberDec(VALIDATION\_DATA['N'/015]);  
delay(DISPLAY\_DELAY);  
  
hero\_display.showNumberDec(VALIDATION\_DATA['Q'/0b1001]);  
delay(DISPLAY\_DELAY);  
  
hero\_display.showNumberDec(VALIDATION\_DATA[060-'$']);  
delay(DISPLAY\_DELAY);  
}