Automatic Can Crusher Code:

Inputs

0 - Key Switch
1 - Start (big red center button)
2 - Stop Switch
3 - On/Off Switch
4 - Proxy Sensor

Outputs

Soleniod 1 - Main Push
Soleniod 2 - Main Pull
Soleniod 3 - Turn 1
Soleniod 4 - Turn 2

20 -- Green LED
21 -- Organge LED
22 -- Red LED

The key must be ON to use the crusher

The stop switch should toggle a relay On and Off to pause operations, it should also make all of the LEDs flash rapidly

The proxy switch toggles the crusher into a ready/not reay state (green and red LED) if the On/off switch is ON

If the crusher is in a ready state, the big red switch will activate the crusher, turning the orange LED on

MODE 1 - Sensor Switch is in the ON position

[STOP SWITCH TOGGLE]

```
STR          02
AND NOT      161
OUT          160

STR          02
OUT          161

STR          160
AND          20
OUT          162

STR          160
OR           20
AND NOT      162
OUT          140      <-------- Coil 140 is the stop switch on/off

STR          140 -- [E-STOP ON]
OR NOT       004 -- [NO CAN BY PROXY]
AND          003 -- [SENSOR SWITCH ON]
OUT          022 -- [RED LED ON]
```

```
STR          004 -- [CAN BY PROXY]
AND          003 -- [SENSORS ON]
AND NOT      140 -- [E-STOP OFF]
OUT          020 -- [GREEN LED ON]
```

[START CRUSHER TOGGLE]

```
STR          00
AND NOT      164
OUT          163

STR          02
OUT          164

STR          163
AND          20
OUT          165

STR          163
OR           20
AND NOT      165
OUT          141     <-------- Coil 141 is the big red switch on/off
```

[THE ACTUAL CRUSHING]

```
STR          141 -- [BIG RED SWITCH PRESSED]
AND          000 -- [KEY ON]
AND NOT      140 -- [E-STOP SWITCH OFF]
AND          004 -- [PROXY CLOSED]
AND          003 -- [SENSORS ON]
OUT          142 -- [START CRUSHING SEQUENCE]
```

```
STR          142
AND NOT      140 -- [E-STOP OFF]
AND          000   -- [KEY ON]
SET          300
OUT          21 -- [ORANGE LED ON]
```

```
STR          300                              [DROPS CAN TO BE CRUSHED, RELOADS]
AND NOT      140 -- [E-STOP OFF]
AND          000   -- [KEY ON]
TMR          600
             =2.0
OUT          21 -- [ORANGE LED ON]
```

```
STR NOT TMR    600
AND NOT      140 -- [E-STOP OFF]
AND          000 -- [KEY ON]
OUT          #3 -- [DROP CAN INTO CRUSHER]
SET          301
OUT          21 -- [ORANGE LED ON]
```

```
STR TMR        600
```

```
AND NOT      140 -- [E-STOP OFF]
AND          000 -- [KEY ON]
OUT          #4 -- [LOAD CAN CHUTE]
OUT          21 -- [ORANGE LED ON]
```

```
STR          301
AND NOT      140 -- [E-STOP OFF]
AND          000 -- [KEY ON]
TMR          601
             =2.0                                    [CRUSHES CAN, RETRACTS]
OUT          21 -- [ORANGE LED ON]


STR NOT TMR   601
AND NOT      140 -- [E-STOP OFF]
AND          000 -- [KEY ON]
OUT          #1 -- [MAIN EXTEND]
OUT          21 -- [ORANGE LED ON]


STR TMR      601
AND NOT      140 -- [E-STOP OFF]
AND          000 -- [KEY ON]
OUT          #2 -- [MAIN RETRACT]
OUT          21 -- [ORANGE LED ON]
RST          300
RST          301
```