```
/******
Flexible 4-Port Sequencer   Version 1.0

Designed by Dennis Kidder W6DQ 5 Jan 2014

This sketch when used with the purpose-built hardware described in the
book, "Arduino Projects for Ham Radio," will provide a completely
configurable sequencer.   Two sets of two arrays configure the ON sequence
the OFF sequence and the delays between each step.   This allows the ON
and OFF sequence order to different along with the ON and OFF times for each
step through sequence.
******/

/******
The following four lines of code allow the user to configure the ON and OFF
sequence and delay times for each step.   The default configuration turns
the relays on in the sequence "1,2,3,4" (represented logically by digital
IO pins 0, 1, 2, and 4) and to turn them off in the reverse order "4,3,2,1."

The delay between steps is expressed in milliseconds and the default is 50.
The order of the values in the array corresponds to the order in which the
relays are turned ON or OFF.
******/

#define DEBOUNCEDELAY   10

int relayPin[] = {6,7,8,9};              // order to sequence relays on
int onDelay[] = {50,50,50,50};           // ON times in sequence

int relayPinOff[] = {9,8,7,6};           // order to sequence relays off
int offDelay[] = {50,50,50,50};          // OFF times in sequence

int inputInd = 13;                       // pin 13 drives the input indicator LED
int pttInput = 10;                       // pin 5 is the PTT input

int arrayElements = (sizeof(relayPin) / sizeof(relayPin[0])); //   elements

void setup()
{
  for(int index = 0; index < arrayElements; index++)
  {
    pinMode(relayPin[index], OUTPUT);
    pinMode(inputInd, OUTPUT);
    pinMode(pttInput, INPUT);

    digitalWrite(pttInput, HIGH);
  }
}

void loop()
{
```

Listing 12-2   Sequencer program for Arduino.

Arduino Projects For Amateur Radio

Jack Jay Purdum,Albert Peter

Arduino Projects For Amateur Radio:

Arduino Projects for Amateur Radio Jack Purdum,Dennis Kidder,2014-09-04 BOOST YOUR HAM RADIO S CAPABILITIES USING LOW COST ARDUINO MICROCONTROLLER BOARDS Do you want to increase the functionality and value of your ham radio without spending a lot of money This book will show you how Arduino Projects for Amateur Radio is filled with step by step microcontroller projects you can accomplish on your own no programming experience necessary After getting you set up on an Arduino board veteran ham radio operators Jack Purdum W8TEE and Dennis Kidder W6DQ start with a simple LCD display and move up to projects that can add hundreds of dollars worth of upgrades to existing equipment This practical guide provides detailed instructions helpful diagrams lists of low cost parts and suppliers and hardware and software tips that make building your own equipment even more enjoyable Downloadable code for all of the projects in the book is also available Do it yourself projects include LCD shield Station timer General purpose panel meter Dummy load and watt meter CW automatic keyer Morse code decoder PS2 keyboard CW encoder Universal relay shield Flexible sequencer Rotator controller Directional watt and SWR meter Simple frequency counter DDS VFO Portable solar power source

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