

```

const int selectPins1[3] = {5,6,7}; // mux1 S0~5, S1~6, S2~7
const int selectPins2[3] = {2,3,4}; // mux2 S0~2, S1~3, S2~4
const int zOutput = 5;
const int zInput1 = A1; // Connect common z to A1 for mux1
const int zInput2 = A2; // Connect common z to A2 for mux2
int seq[16];
int hasInput = 0;

void setup() {
  Serial.begin(9600); // Initialize the serial port
  // Set up the select pins as outputs:
  for (int i=0; i<3; i++)
  {
    pinMode(selectPins1[i], OUTPUT);
    pinMode(selectPins2[i], OUTPUT);
    digitalWrite(selectPins1[i], HIGH);
    digitalWrite(selectPins2[i], HIGH);
  }
  pinMode(zInput1, INPUT); // Set up z1 as an input for mux1
  pinMode(zInput2, INPUT); // Set up z2 as an input for mux2
}

```