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/*-c++*-
//THE EVOLUTION OF SELF
//Part of the interpolations project http://interpolations.org

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// 2011
/*
SELF represents the interpolation upon the individual of political vitriol, the internalization of
hatred and violence in thought and mind resulting in the continual destabilization and response. The
breakdown of the self, and the bloodletting of society.
*/
/* I need to thank J. Eric Townsend for "generate morse code" and Brandon Niemczyk for his
invaluable help with this portion of the program!!! They are awesome.*/

const int wpm = 10;
int ditLen = 0; // ms
int dashLen = 0;
int symLen = 0;
int spaceLen = 0;

int pin1 = 30; //Sarah Palin           textMessage01,
int pin2 = 31; //Pat Robertson        textMessage02,textMessage22
int pin3 = 32; //Sharron Angle         textMessage03
int pin4 = 33; //Joyce Kaufman         textMessage04
int pin5 = 34; //Glen Erquhart        textMessage05
int pin6 = 35; //Ann Coulter           textMessage06,textMessage07,
int pin7 = 36;                        //textMessage17
int pin8 = 37; //Bill O'Reilly         textMessage08
int pin9 = 38; //Rush Limbaugh         textMessage09,textMessage21
                                        //textMessage23,textMessage16
                                        //textMessage18,textMessage12

int pin10 = 39; //S.C. Lt. Gov. Andre Bauer textMessage10
int pin11 = 40; //Jake Knotts          //textMessage11
int pin12 = 41;
int pin13 = 42; //Glenn Beck           textMessage13,textMessage20,
                                        textMessage19
int pin14 = 43; //Raul Emmanuel        textMessage14
int pin15 = 44; //Michelle Bachmann    textMessage15,textMessage24
int pin15 = 44;

/* no punctuation - morse code */
char textMessage01[] = " Don't retreat - Reload.";
char textMessage02[] = " Feminism encourages women to leave their husbands, kill their children
practice witchcraft, destroy capitalism and become lesbians.";
char textMessage03[] = " If this Congress keeps going the way it is people are really looking toward
those Second Amendment remedies and saying "My goodness what can we do to turn this country around?"
I'll tell you, the first thing we need to do is take Harry Reid out.";
char textMessage04[] = " the most important thing the founding fathers did to ensure me my First
Amendment rights was they gave me a Second Amendment. And if ballots don't work bullets will.";
char textMessage05[] = " The exact phrase separation of Church and State came out of Adolph Hitler's
mouth, that's where it comes from. So the next time your liberal friends talk about the separation of
Church and State ask them why they're Nazis.";
char textMessage06[] = " We need to execute people like John Walker Lindh in order to physically
intimidate liberals.";
char textMessage07[] = " My only regret with Timothy McVeigh is he did not go to the New York Times
Building.";
char textMessage08[] = " I just wish Katrina had only hit the United Nations building, nothing else,
just had flooded them out, and I wouldn't have rescued them.";
char textMessage09[] = " Feminism was established so as to allow unattractive women easier access to
the mainstream of society.";
char textMessage10[] = " My grandmother was not a highly educated woman, but she told me as a small
child to quit feeding stray animals. You know why? Because they breed. You're facilitating the problem
if you give an animal or a person ample food supply.";
char textMessage11[] = " She's a fucking raghead. We got a raghead in Washington; we don't need one in
South Carolina. She's a raghead that's ashamed of her religion trying to hide it behind being Methodist
for political reasons.";
char textMessage12[] = " The only way to reduce the number of nuclear weapons is to use them.";
char textMessage13[] = " I went to the movie this weekend with a gun. And surprise, surprise, I didn't
kill anybody.";
char textMessage14[] = " Take your fucking tampon out and tell me what you have to say.";
char textMessage15[] = " I wish the American media would take a great look at the views of the people
in Congress and find out Are they pro-America or anti-America?"; //call for a new McCarthyism.

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char textMessage16[] = " They vote with their vaginas";
char textMessage17[] = " They've hit us and we've got to hit back hard, and I'm not just talking about
the terrorists. ";
char textMessage18[] = " We just want Jews to be perfected, as they say.";
char textMessage19[] = " I'm thinking about killing Michael Moore, and I'm wondering if I could kill
him myself or if I would need to hire somebody to do it. No, I think I could. I think he could be
looking me in the eye, you know, and I could just be choking the life out.";
char textMessage20[] = " This president, I think, has exposed himself over and over again as a guy who
has a deep-seated hatred for white people or the white culture....I'm not saying he doesn't like white
people, I'm saying he has a problem. This guy is, I believe, a racist.";
char textMessage21[] = " If I'm going to say anything about John Edwards in the future, I'll just wish
he had been killed in a terrorist assassination plot.";
char textMessage22[] = " It may be a blessing in disguise. ... Something happened a long time ago in
Haiti, and people might not want to talk about it. Haitians were originally under the heel of the
French. You know, Napoleon the third, or whatever. And they got together and swore a pact to the devil.
They said, we will serve you if you will get us free from the French. True story. And so, the devil
said, okay it's a deal. Ever since they have been cursed by one thing after the other.";
//on the 2010 earthquake.
char textMessage23[] = " You know why there's a Second Amendment? In case the government fails to
follow the first one. ";
char textMessage24[] = " I want people in Minnesota armed and dangerous on this issue of the energy tax
because we need to fight back. Thomas Jefferson told us 'having a revolution every now and then is a
good thing,' and the people -- we the people -- are going to have to fight back hard if we're not going
to lose our country.";

void setup()
{
    ditLen = 1200 / wpm;
    dashLen = ditLen * 3;
    symLen = ditLen;
    spaceLen = dashLen;

    pinMode(pin1, OUTPUT); // The original inspiration for SELF came from
    pinMode(pin2, OUTPUT); // my instinctive reaction to the changing light
    pinMode(pin3, OUTPUT); // in my host country of Sweden, from
    pinMode(pin4, OUTPUT); // a conversation with a good friend stirring
    pinMode(pin5, OUTPUT); // memories of a lifelong fascination with
    pinMode(pin6, OUTPUT); // the helix, and from exposure to a piece
    pinMode(pin7, OUTPUT); // of artwork that introduced my to the Game
    pinMode(pin8, OUTPUT); // of Life programming that has become so
    pinMode(pin9, OUTPUT); // central in both the concept and the execution
    pinMode(pin10, OUTPUT); // of my recent work.
    pinMode(pin11, OUTPUT);
    pinMode(pin12, OUTPUT); // SELF was originally conceived as a political
    pinMode(pin13, OUTPUT); // piece representing global warming and
    pinMode(pin14, OUTPUT); // migration, but the more I worked on it the
    pinMode(pin15, OUTPUT); // more it became a familiar. Conceived as a

    digitalWrite(pin1, LOW); // helix with an 8 x 64 tube of LED's running
    digitalWrite(pin2, LOW); // down its center, these LED's were programmed
    digitalWrite(pin3, LOW); // to "set seeds" on any side upon a viewers
    digitalWrite(pin4, LOW); // approach and engage in the "game of life".
    digitalWrite(pin5, LOW); // This programming originated back in the
    digitalWrite(pin6, LOW); // 1970's by John Conway. Essentially it was
    digitalWrite(pin7, LOW); // created to imitate life in a petri dish.
    digitalWrite(pin8, LOW); // Consisting of a grid of squares (lights)- if
    digitalWrite(pin9, LOW); // a single consecutive light is lit it dies of
    digitalWrite(pin10, LOW); // loneliness, if 2-4 adjoining lights are lit
    digitalWrite(pin11, LOW); // it is "happy" and if many lights are lit
    digitalWrite(pin12, LOW); // it overcrowding occurs and it dies from a
    digitalWrite(pin13, LOW); // lack of resources. The 'warring'effect of
    digitalWrite(pin14, LOW); // the lights occurs when there are multiple
    digitalWrite(pin15, LOW); // surrounding viewers. While working on it I

    Serial.begin(9600); //suffered a period of intense depression
    Serial.print("ditLen "); //accompanied by health difficulties - a period
    Serial.println(ditLen); //of serious illness and the following fears

void loop()
{
    DoString(textMessage01, pin1); //sent me spiraling deeper into depression
    digitalWrite(pin1, LOW); //than I had been in several years.
    DoString(textMessage02, pin2); //Suddenly the helix took on a far more

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    digitalWrite(pin2, LOW);
DoString(textMessage03, pin3);
    digitalWrite(pin3, LOW);
DoString(textMessage04, pin4);
    digitalWrite(pin4, LOW);
DoString(textMessage04, pin5);
    digitalWrite(pin5, LOW);
DoString(textMessage06, pin6);
    digitalWrite(pin6, LOW);
DoString(textMessage07, pin4);
    digitalWrite(pin7, LOW);
DoString(textMessage08, pin8);
    digitalWrite(pin8, LOW);
DoString(textMessage09, pin9);
    digitalWrite(pin9, LOW);
DoString(textMessage10, pin10);
    digitalWrite(pin10, LOW);
DoString(textMessage11, pin11);
    digitalWrite(pin11, LOW);
DoString(textMessage12, pin12);
    digitalWrite(pin12, LOW);
DoString(textMessage13, pin13);
    digitalWrite(pin13, LOW);
DoString(textMessage14, pin14);
    digitalWrite(pin14, LOW);
DoString(textMessage15, pin15);
    digitalWrite(pin15, LOW);
}

//personal and sinister aspect. Not only
// was I again fighting depression and
// under attack by the world around me
// but now my own body was even betraying
// me. In the end I added a crystal heart
// beating with a sound file of an echo-
// cardiogram. The work was therapeutic
// in itself and was also one of the most
// sincere pieces I had done in years.

// Upon repatriating to the US in 2010
// after several years in Sweden, many of
// my homecoming fears were realized in
// more graphic detail than I imagined.
// Contrary to what most people would
// think, the move "home" is generally
// more difficult than the move away.
// Upon the move away there is almost a
// honeymoon period as discoveries of not
// only new sights and individuals begin -
// but a growing realization that there are
// alternative methods and systems - an
// expanding horizon. Since there are
// no underlying expectations of
// familiarity the mind opens to the
// adjustments necessary.

//Returning carries a different
//perspective altogether.

void DoString(const char *str, int ledPin)
{
    size_t len = strlen(str);
    for(int i = 0; i < len; i++) {
        DoLetter(str[i], ledPin);
    }
}

void DoLetter(char c, int ledPin) {
    switch(c) {
    case 'a':
        //The expectation of familiarity and the
        //anticipation of renewing friendships
        //and sharing new found knowledge and experience
        //mix to create a formula for failure. While
        //friends are still there, both they and
        //you yourself have moved on into different
        //places. Eyes glaze over if you talk about
        //your experience and subjects are changed.
        //Not only friends, but the country has changed
        //as well.
        DoDit(ledPin);
        DoSym();
        DoDash(ledPin);
        DoSpace();
        break;
    case 'b':
        DoDash(ledPin);
        DoSym();
        DoDit(ledPin);
        DoSym();
        DoDit(ledPin);
        DoSym();
        DoDit(ledPin);
        DoSym();
        DoSpace();
        break;
    case 'c':
        //The changes were brought home to me in
        //an unexpectedly explicit manner. After
        //several years of living in a Swedish speaking
        //environment (and my Swedish could be better)
        //I had become used to ignoring most of the
        //voices around me. Unless, however, I would
        //hear the occasional American accent - the
        //drawn out nasal "a" that is so unique to
        //our language. I would automatically react
        //to hearing another American with a
        //certain internal excitement and listen
        //Upon the move home it took a while to turn
        DoDash(ledPin);
        DoSym();
        DoDit(ledPin);
        DoSym();
        DoDash(ledPin);
        DoSym();
        DoDit(ledPin);
        DoSym();
        DoSpace();
        break;
    case 'C':
        DoDash(ledPin);
        DoSym();
        DoDit(ledPin);
        DoSym();
        DoDash(ledPin);
        DoSym();
        DoDit(ledPin);
        DoSym();
        DoSpace();
        break;
    }
}

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case 'd':
case 'D':           //that reaction off, suddenly I
                   //heard EVERYTHING.
                   //Not good.
    DoDash(ledPin);
    DoSym();
    DoDit(ledPin);
    DoSym();
    DoDit(ledPin);
    DoSym();
    DoSpace();
    break;
case 'e':           //Listening and understanding to everyone
case 'E':           //around you will ground you culturally, fast.
                   //Too fast. I soon recognized the influence
                   //of the hate and polarity spewed in recent
                   //times by our political system (I was not
                   //immune to the news while I was away). How
case 'f':           //comfortable people are in justifying hatred
case 'F':           //and even violence now - racial, sexual,
                   //political, religious... prejudicial sentiment
                   //abounds. No longer politically incorrect
                   //but even embraced.
    DoDit(ledPin);
    DoSym();
    DoDit(ledPin);
    DoSym();
    DoDash(ledPin);
    DoSym();
    DoDit(ledPin);
    DoSym();
    DoSpace();
    break;
case 'g':           //It hurts.
case 'G':           //I thought we were better than that.
                   //Most frightening of all
                   //is that
                   //at times
                   //I find it
                   //contagious.
    DoDash(ledPin);
    DoSym();
    DoDash(ledPin);
    DoSym();
    DoDit(ledPin);
    DoSym();
    DoSpace();
    break;
case 'h':           //In a regeneration of SELF
case 'H':           //I have added a number of satellites -
                   //black roses communicating silently
                   //in Morse code -
                   //blinking out many of
                   //the hateful statements
                   //made in recent years by those
                   //that influence us as a nation;
                   //politicians,
                   //"news" personalities,
                   //talk show hosts,
                   //even
case 'i':           //religious figureheads.
case 'I':           //Fortunately the list is not endless
                   //-the worst of it lies in
                   //perhaps
                   //a dozen individuals.
                   //No specific party was targeted -
                   //only
                   //those individuals
case 'j':           //promoting
case 'J':           //hatred
                   //and-or violence.
    DoDit(ledPin);
    DoSym();
    DoDash(ledPin);
    DoSym();
    DoDash(ledPin);
    DoSym();
    DoDash(ledPin);
    DoSym();
    DoSpace();
    break;
case 'k':           //Getting Personal
case 'K':           //I've taken quite some time now to
                   //fight through my ideas for the upcoming show.
    DoDash(ledPin);
    DoSym();

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DoDit(ledPin); // Since I am essentially alone
DoSym(); // and don't have any kind of group forum
DoDash(ledPin); // set up to discuss ideas
DoSym(); // I'm going to have to just trust
DoSpace(); // in my own judgment
break; // and move on.
case 'l':
case 'L': //The Effect of News, Life, and
DoDit(ledPin); //Outside Influences
DoSym(); //on the Psyche of Self.
DoDash(ledPin); //In consideration of a rational individual,
DoSym(); //it gets to me.
DoDit(ledPin); //Something to worry about.
DoSym(); //Something other people worry me about.
DoDit(ledPin); //Makes me long for birdsong
DoSym(); //and fresh air away from my neighbors.
DoSpace(); //Makes me want to express my frustration.
break; //I know I want to rise from the ashes -
case 'm': //but do I want to experience the process?
case 'M': //It reminds me that sometimes change is good
DoDash(ledPin); //- but seldom in my experience have either
DoSym(); //violence nor the resulting government
DoDash(ledPin); //preventative actions
DoSym(); //been positive things.
DoSpace(); //Never have assassinations been good.
break; //Watch how it effects me.
case 'n': //I am not alone in being politically aware.
case 'N': //There are many of us out there
DoDash(ledPin); //that are frightened by the violence
DoSym(); //condoned through sloppy and deliberate
DoDit(ledPin); //rhetoric.
DoSym(); //Being excused and defended vigorously.
DoSpace(); //Why do you try to help them
break; // if they only beat you down
case 'o': //call you names,
case 'O': //shoot at you?
DoDash(ledPin); //After all,
DoSym(); //the sheep are following
DoDash(ledPin); //the manipulators
DoSym(); //who are out to make a buck
DoDash(ledPin); //- apparently the sheep are content
DoSym(); //with what they don't have today.

DoSpace(); //Their fawning and bowing down kills them
break; //with uninsured cancer.
case 'p': //Too late.
case 'P': //Guilt.
DoDit(ledPin); //Foreign frustration.
DoSym(); //Resentment.
DoDash(ledPin); //Disgust.
DoSym(); //The portrayal of fads -
DoDash(ledPin); //popular blame.
DoSym();
DoDit(ledPin);
DoSym();
DoSpace();
break;
case 'q': //Popular blame.
case 'Q': //My problems are your fault.
DoDash(ledPin); //Denial of responsibility.
DoSym(); //Not a bit of guilt
DoDash(ledPin); //because
DoSym(); //it's always someone else's fault.
DoDit(ledPin); //Take down that web page fast.
DoSym(); //Go on the attack.
DoDash(ledPin); //I didn't do anything wrong.
DoSym(); //An epidemic of non-fault
DoSpace(); //- blame everyone, not only the guilty.
break; //Get elected.
case 'r': // The ends justify the means.
case 'R': //Really.
DoDit(ledPin); //Foreign.
DoSym(); //Domestic.
DoDash(ledPin); //Personal.

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        DoSym(); //Call off the attack.
        DoSpace(); //Call off the attack.
        break; //Call off the attack.
    case 'z': //Call off the attack.
    case 'Z': //Call off the attack.
        DoDash(ledPin); //Call off the attack.
        DoSym(); //Call off the attack.
        DoDash(ledPin); //Call off the attack.
        DoSym(); //Call off the attack.
        DoDit(ledPin); //Call off the attack.
        DoSym(); //Call off the attack.
        DoDit(ledPin); //Call off the attack.
        DoSym(); //Call off the attack.
        DoSpace(); //Call off the attack.
        break; //Call off the attack.

//remove numbers and punctuation
    default:
        Serial.print("unknown character >");
        Serial.print(c);
        Serial.println("<");
    }
}

void DoDit(int ledPin)
{
    digitalWrite(ledPin, HIGH); //I do struggle with how much and in which
    delay(ditLen); //way, as an artist or celebrity,
    digitalWrite(ledPin, LOW); //that you voice your political views. "
} //Kevin Bacon

void DoDash(int ledPin)
{
    digitalWrite(ledPin, HIGH); //The core political values of our free
    delay(dashLen); //society are so deeply embedded in our
    digitalWrite(ledPin, LOW); //collective consciousness that only a
    //few malcontents, lunatics generally,
    //lunatics generally,
    //ever dare to threaten them."
} //John McCain

void DoSpace()
{
    delay(spaceLen); //You have to look also to the media,
    //where you have a vast majority of the
    //loudest and most influential political
    //voices in America media from people who
    //came from the entertainment world."
} //Ben Affleck

void DoSym()
{
    delay(symLen); //I could give a flying crap about the
    //political process. We're an
    //entertainment company,"
} //Glenn Beck

void blinkLed(int pin, int ms) {
    digitalWrite(pin,LOW); //The best political weapon is the weapon
    digitalWrite(pin,HIGH); //of terror. Cruelty commands respect.
    delay(ms); //Men may hate us.
    digitalWrite(pin,LOW); //But, we don't ask for their love;
    delay(ms); //only for their fear. "
} //Heinrich Himmler

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