

```

/*
 * File: main1509.c
 * Author: valky
 *
 * Created on 2019/12/31, 22:10
 */

#include <xc.h>

#pragma config FOSC = INTOSC // Oscillator Selection (INTOSC oscillator: I/O function on CLKIN pin)
#pragma config WDTE = OFF // Watchdog Timer Enable (WDT disabled)
#pragma config PWRTE = OFF // Power-up Timer Enable (PWRT disabled)
#pragma config MCLRE = ON // MCLR Pin Function Select (MCLR/VPP pin function is digital input)
#pragma config CP = OFF // Flash Program Memory Code Protection (Program memory code protection is disabled)
#pragma config BOREN = ON // Brown-out Reset Enable (Brown-out Reset enabled)
#pragma config CLKOUTEN = OFF // Clock Out Enable (CLKOUT function is disabled. I/O or oscillator function on the CLKOUT pin)
#pragma config IESO = OFF // Internal/External Switchover (Internal/External Switchover mode is disabled)
#pragma config FCMEN = OFF // Fail-Safe Clock Monitor Enable (Fail-Safe Clock Monitor is disabled)
// CONFIG2
#pragma config WRT = OFF // Flash Memory Self-Write Protection (Write protection off)
#pragma config STVREN = OFF // Stack Overflow/Underflow Reset Enable (Stack Overflow or Underflow will not cause a Reset)
#pragma config BORV = LO // Brown-out Reset Voltage Selection (Brown-out Reset Voltage (Vbor), low trip point selected.)
#pragma config LVP = OFF // Low-Voltage Programming Enable (High-voltage on MCLR/VPP must be used for programming)

void dash();
void dot();
void morsea();
void morseb();
void morsec();
void marsed();
void morsee();
void morsef();
void morseg();
void morseh();
void morsei();
void morsej();
void morsek();
void morsel();
void morsem();
void morsen();
void morseo();
void morsep();
void morseq();
void morser();
void morses();
void morset();
void morseu();
void morsev();
void morsew();
void morsex();
void morsey();
void morsez();
void morse1();
void morse2();
void morse3();
void morse4();
void morse5();

```

```

void morse6();
void morse7();
void morse8();
void morse9();
void morse0();
void morseque();
void morsear();
void morsekn();
void morseesr();
void wait(int n);

// ?????????
// _delay_ms()???????
#define _XTAL_FREQ 1000000

int n,n3,n4;

void main() {

    // PIC?????
    OSCCON = 0b01011010; // ??????????1MHz??
    TRISA = 0x3E; //0x3E
    TRISB = 0x30; //0x30
    TRISC = 0xFF; //0xFF
    ANSELA = 0x2; //0x2
    ANSELB = 0x0; //0x0
    ANSELC = 0x0; //0x0
    WPUA = 0x3F; //0x3F
    WPUB = 0xF0; //0xF0
    ADCON0 = 0b00000101;
    ADCON1 = 0b10000000;

    // LED????
    LATA = 0b00000000;
    LATB = 0b00000000;
    LATC = 0b00000000;

    GO = 1;
    while(GO);

    n = 4*ADRES/256;
    n3 = n+n+n;
    n4 = n3+n;

    // LED????(???????)
    if(RA4==0){
        morsea(n,n3);
        morseb(n,n3);
        morsec(n,n3);
        marsed(n,n3);
        morsee(n,n3);
        morsef(n,n3);
        morseg(n,n3);
        morseh(n,n3);
        morsei(n,n3);
        morsej(n,n3);
        morsek(n,n3);
        morsesl(n,n3);
        morsem(n,n3);
        morsen(n,n3);
        morseo(n,n3);
        morsep(n,n3);
    }
}

```

```
morseq(n,n3);
morser(n,n3);
morses(n,n3);
morset(n,n3);
morseu(n,n3);
morsev(n,n3);
morsew(n,n3);
morsex(n,n3);
morsey(n,n3);
morsez(n,n3);
}
```

```
if(RA5==0){
  morse1(n,n3);
  morse2(n,n3);
  morse3(n,n3);
  morse4(n,n3);
  morse5(n,n3);
  morse6(n,n3);
  morse7(n,n3);
  morse8(n,n3);
  morse9(n,n3);
  morse0(n,n3);
  morseque(n,n3);
  morsesar(n,n3);
}
```

```
if(RC3==0){
  morsec(n,n3);
  morseq(n,n3);
  wait(n4);
  morsec(n,n3);
  morseq(n,n3);
  wait(n4);
  mersed(n,n3);
  morsee(n,n3);
  wait(n4);
  morsej(n,n3);
  morseh(n,n3);
  morse1(n,n3);
  morsez(n,n3);
  morsev(n,n3);
  morsep(n,n3);
  morsesr(n,n3);
  morse3(n,n3);
  wait(n4);
  morsej(n,n3);
  morseh(n,n3);
  morse1(n,n3);
  morsez(n,n3);
  morsev(n,n3);
  morsep(n,n3);
  morsesr(n,n3);
  morse3(n,n3);
  wait(n4);
  morsek(n,n3);
}
```

```
if(RC4==0){
  morseu(n,n3);
  morser(n,n3);
  wait(n4);
}
```

```
morse5(n,n3);
morsen(n,n3);
morsen(n,n3);
wait(n4);
morse7(n,n3);
morse3(n,n3);
wait(n4);
morset(n,n3);
morseu(n,n3);
}
```

```
if(RC5==0){
  morseq(n,n3);
  morset(n,n3);
  morseh(n,n3);
  wait(n4);
  morseh(n,n3);
  morser(n,n3);
  wait(n4);
  morsei(n,n3);
  morses(n,n3);
  wait(n4);
  morsek(n,n3);
  morsea(n,n3);
  morsem(n,n3);
  morsea(n,n3);
  morsek(n,n3);
  morseu(n,n3);
  morser(n,n3);
  morsea(n,n3);
  wait(n4);
  morsek(n,n3);
  morsea(n,n3);
  morsem(n,n3);
  morsea(n,n3);
  morsek(n,n3);
  morseu(n,n3);
  morser(n,n3);
  morsea(n,n3);
}
```

```
if(RC6==0){
  morseo(n,n3);
  morsep(n,n3);
  wait(n4);
  morseh(n,n3);
  morser(n,n3);
  wait(n4);
  morsei(n,n3);
  morses(n,n3);
  wait(n4);
  morsem(n,n3);
  morsea(n,n3);
  morset(n,n3);
  morses(n,n3);
  morseu(n,n3);
  marsed(n,n3);
  morsea(n,n3);
  wait(n4);
  morsem(n,n3);
  morsea(n,n3);
  morset(n,n3);
}
```

```
morses(n,n3);
morseu(n,n3);
morsed(n,n3);
morsea(n,n3);
}
```

```
if(RC7==0){
  morseh(n,n3);
  morsew(n,n3);
  morseque(n,n3);
  wait(n4);
  morsed(n,n3);
  morsee(n,n3);
  wait(n4);
  morsej(n,n3);
  morseh(n,n3);
  morse1(n,n3);
  morsez(n,n3);
  morsev(n,n3);
  morsep(n,n3);
  morsesr(n,n3);
  morse3(n,n3);
  wait(n4);
  morsekn(n,n3);
}
```

```
if((RB4==0)&&(RA2==0))
  dot(n,n3);
if((RB4==0)&&(RA2==1))
  dash(n,n3);
if((RB5==0)&&(RA2==0))
  dash(n,n3);
if((RB5==0)&&(RA2==1))
  dot(n,n3);
}
```

```
void dash(n,n3){
  LATA=0b00000001;
  LATB=0b11000000;
  wait(n3);
  LATA=0b00000000;
  LATB=0b00000000;
  wait(n);
}
```

```
void dot(n,n3){
  LATA=0b00000001;
  LATB=0b11000000;
  wait(n);
  LATA=0b00000000;
  LATB=0b00000000;
  wait(n);
}
```

```
void morsea(n,n3){
  LATA=0b00000001;
  LATB=0b11000000;
  wait(n);
  LATA=0b00000000;
  LATB=0b00000000;
```

```
wait(n);
LATA=0b00000001;
LATB=0b11000000;
wait(n3);
LATA=0b00000000;
LATB=0b00000000;
wait(n3);
}
```

```
void morseb(n,n3){
LATA=0b00000001;
LATB=0b11000000;
wait(n3);
LATA=0b00000000;
LATB=0b00000000;
wait(n);
LATA=0b00000001;
LATB=0b11000000;
wait(n);
LATA=0b00000000;
LATB=0b00000000;
wait(n);
LATA=0b00000001;
LATB=0b11000000;
wait(n);
LATA=0b00000000;
LATB=0b00000000;
wait(n);
LATA=0b00000001;
LATB=0b11000000;
wait(n);
LATA=0b00000000;
LATB=0b00000000;
wait(n3);
}
```

```
void morsec(n,n3){
LATA=0b00000001;
LATB=0b11000000;
wait(n3);
LATA=0b00000000;
LATB=0b00000000;
wait(n);
LATA=0b00000001;
LATB=0b11000000;
wait(n);
LATA=0b00000000;
LATB=0b00000000;
wait(n);
LATA=0b00000001;
LATB=0b11000000;
wait(n3);
LATA=0b00000000;
LATB=0b00000000;
wait(n);
LATA=0b00000001;
LATB=0b11000000;
wait(n);
LATA=0b00000000;
LATB=0b00000000;
wait(n3);
}
```

```

void mersed(n,n3){
    LATA=0b00000001;
    LATB=0b11000000;
    wait(n3);
    LATA=0b00000000;
    LATB=0b00000000;
    wait(n);
    LATA=0b00000001;
    LATB=0b11000000;
    wait(n);
    LATA=0b00000000;
    LATB=0b00000000;
    wait(n);
    LATA=0b00000001;
    LATB=0b11000000;
    wait(n);
    LATA=0b00000000;
    LATB=0b00000000;
    wait(n3);
}

```

```

void morsee(n,n3){
    LATA=0b00000001;
    LATB=0b11000000;
    wait(n);
    LATA=0b00000000;
    LATB=0b00000000;
    wait(n3);
}

```

```

void morsef(n,n3){
    LATA=0b00000001;
    LATB=0b11000000;
    wait(n);
    LATA=0b00000000;
    LATB=0b00000000;
    wait(n);
    LATA=0b00000001;
    LATB=0b11000000;
    wait(n);
    LATA=0b00000000;
    LATB=0b00000000;
    wait(n);
    LATA=0b00000001;
    LATB=0b11000000;
    wait(n3);
    LATA=0b00000000;
    LATB=0b00000000;
    wait(n);
    LATA=0b00000001;
    LATB=0b11000000;
    wait(n);
    LATA=0b00000000;
    LATB=0b00000000;
    wait(n3);
}

```

```

void morseg(n,n3){
    LATA=0b00000001;
    LATB=0b11000000;
    wait(n3);
}

```

```
LATA=0b00000000;
LATB=0b00000000;
wait(n);
LATA=0b00000001;
LATB=0b11000000;
wait(n3);
LATA=0b00000000;
LATB=0b00000000;
wait(n);
LATA=0b00000001;
LATB=0b11000000;
wait(n);
LATA=0b00000000;
LATB=0b00000000;
wait(n3);
}
```

```
void morseh(n,n3){
LATA=0b00000001;
LATB=0b11000000;
wait(n);
LATA=0b00000000;
LATB=0b00000000;
wait(n);
LATA=0b00000001;
LATB=0b11000000;
wait(n);
LATA=0b00000000;
LATB=0b00000000;
wait(n);
LATA=0b00000001;
LATB=0b11000000;
wait(n);
LATA=0b00000000;
LATB=0b00000000;
wait(n);
LATA=0b00000001;
LATB=0b11000000;
wait(n);
LATA=0b00000000;
LATB=0b00000000;
wait(n3);
}
```

```
void morsei(n,n3){
LATA=0b00000001;
LATB=0b11000000;
wait(n);
LATA=0b00000000;
LATB=0b00000000;
wait(n);
LATA=0b00000001;
LATB=0b11000000;
wait(n);
LATA=0b00000000;
LATB=0b00000000;
wait(n3);
}
```

```
void morsej(n,n3){
LATA=0b00000001;
LATB=0b11000000;
```



```
wait(n);
LATA=0b00000000;
LATB=0b00000000;
wait(n);
LATA=0b00000001;
LATB=0b11000000;
wait(n3);
LATA=0b00000000;
LATB=0b00000000;
wait(n);
LATA=0b00000001;
LATB=0b11000000;
wait(n3);
LATA=0b00000000;
LATB=0b00000000;
wait(n);
LATA=0b00000001;
LATB=0b11000000;
wait(n3);
LATA=0b00000000;
LATB=0b00000000;
wait(n3);
}
```

```
void morsek(n,n3){
LATA=0b00000001;
LATB=0b11000000;
wait(n3);
LATA=0b00000000;
LATB=0b00000000;
wait(n);
LATA=0b00000001;
LATB=0b11000000;
wait(n);
LATA=0b00000000;
LATB=0b00000000;
wait(n);
LATA=0b00000001;
LATB=0b11000000;
wait(n3);
LATA=0b00000000;
LATB=0b00000000;
wait(n3);
}
```

```
void morsel(n,n3){
LATA=0b00000001;
LATB=0b11000000;
wait(n);
LATA=0b00000000;
LATB=0b00000000;
wait(n);
LATA=0b00000001;
LATB=0b11000000;
wait(n3);
LATA=0b00000000;
LATB=0b00000000;
wait(n);
LATA=0b00000001;
LATB=0b11000000;
wait(n);
LATA=0b00000000;
```

```
LATB=0b00000000;  
wait(n);  
LATA=0b00000001;  
LATB=0b11000000;  
wait(n);  
LATA=0b00000000;  
LATB=0b00000000;  
wait(n3);  
}
```

```
void morsem(n,n3){  
LATA=0b00000001;  
LATB=0b11000000;  
wait(n3);  
LATA=0b00000000;  
LATB=0b00000000;  
wait(n);  
LATA=0b00000001;  
LATB=0b11000000;  
wait(n3);  
LATA=0b00000000;  
LATB=0b00000000;  
wait(n3);  
}
```

```
void morsen(n,n3){  
LATA=0b00000001;  
LATB=0b11000000;  
wait(n3);  
LATA=0b00000000;  
LATB=0b00000000;  
wait(n);  
LATA=0b00000001;  
LATB=0b11000000;  
wait(n);  
LATA=0b00000000;  
LATB=0b00000000;  
wait(n3);  
}
```

```
void morsec(n,n3){  
LATA=0b00000001;  
LATB=0b11000000;  
wait(n3);  
LATA=0b00000000;  
LATB=0b00000000;  
wait(n);  
LATA=0b00000001;  
LATB=0b11000000;  
wait(n3);  
LATA=0b00000000;  
LATB=0b00000000;  
wait(n);  
LATA=0b00000001;  
LATB=0b11000000;  
wait(n3);  
LATA=0b00000000;  
LATB=0b00000000;  
wait(n3);  
}
```

```
void morsep(n,n3){
```

```
LATA=0b00000001;
LATB=0b11000000;
wait(n);
LATA=0b00000000;
LATB=0b00000000;
wait(n);
LATA=0b00000001;
LATB=0b11000000;
wait(n3);
LATA=0b00000000;
LATB=0b00000000;
wait(n);
LATA=0b00000001;
LATB=0b11000000;
wait(n3);
LATA=0b00000000;
LATB=0b00000000;
wait(n);
LATA=0b00000001;
LATB=0b11000000;
wait(n);
LATA=0b00000000;
LATB=0b00000000;
wait(n3);
}
```

```
void morseq(n,n3){
    LATA=0b00000001;
    LATB=0b11000000;
    wait(n3);
    LATA=0b00000000;
    LATB=0b00000000;
    wait(n);
    LATA=0b00000001;
    LATB=0b11000000;
    wait(n3);
    LATA=0b00000000;
    LATB=0b00000000;
    wait(n);
    LATA=0b00000001;
    LATB=0b11000000;
    wait(n);
    LATA=0b00000000;
    LATB=0b00000000;
    wait(n);
    LATA=0b00000001;
    LATB=0b11000000;
    wait(n3);
    LATA=0b00000000;
    LATB=0b00000000;
    wait(n3);
}
```

```
void morser(n,n3){
    LATA=0b00000001;
    LATB=0b11000000;
    wait(n);
    LATA=0b00000000;
    LATB=0b00000000;
    wait(n);
    LATA=0b00000001;
    LATB=0b11000000;
```

```
wait(n3);
LATA=0b00000000;
LATB=0b00000000;
wait(n);
LATA=0b00000001;
LATB=0b11000000;
wait(n);
LATA=0b00000000;
LATB=0b00000000;
wait(n3);
}
```

```
void morse(n,n3){
LATA=0b00000001;
LATB=0b11000000;
wait(n);
LATA=0b00000000;
LATB=0b00000000;
wait(n);
LATA=0b00000001;
LATB=0b11000000;
wait(n);
LATA=0b00000000;
LATB=0b00000000;
wait(n);
LATA=0b00000001;
LATB=0b11000000;
wait(n);
LATA=0b00000000;
LATB=0b00000000;
wait(n3);
}
```

```
void morset(n,n3){
LATA=0b00000001;
LATB=0b11000000;
wait(n3);
LATA=0b00000000;
LATB=0b00000000;
wait(n3);
}
```

```
void morseu(n,n3){
LATA=0b00000001;
LATB=0b11000000;
wait(n);
LATA=0b00000000;
LATB=0b00000000;
wait(n);
LATA=0b00000001;
LATB=0b11000000;
wait(n);
LATA=0b00000000;
LATB=0b00000000;
wait(n);
LATA=0b00000001;
LATB=0b11000000;
wait(n3);
LATA=0b00000000;
LATB=0b00000000;
wait(n3);
}
```

```

void morsev(n,n3){
    LATA=0b00000001;
    LATB=0b11000000;
    wait(n);
    LATA=0b00000000;
    LATB=0b00000000;
    wait(n);
    LATA=0b00000001;
    LATB=0b11000000;
    wait(n);
    LATA=0b00000000;
    LATB=0b00000000;
    wait(n);
    LATA=0b00000001;
    LATB=0b11000000;
    wait(n);
    LATA=0b00000000;
    LATB=0b00000000;
    wait(n);
    LATA=0b00000001;
    LATB=0b11000000;
    wait(n3);
    LATA=0b00000000;
    LATB=0b00000000;
    wait(n3);
}

```

```

void morsew(n,n3){
    LATA=0b00000001;
    LATB=0b11000000;
    wait(n);
    LATA=0b00000000;
    LATB=0b00000000;
    wait(n);
    LATA=0b00000001;
    LATB=0b11000000;
    wait(n3);
    LATA=0b00000000;
    LATB=0b00000000;
    wait(n);
    LATA=0b00000001;
    LATB=0b11000000;
    wait(n3);
    LATA=0b00000000;
    LATB=0b00000000;
    wait(n3);
}

```

```

void morsex(n,n3){
    LATA=0b00000001;
    LATB=0b11000000;
    wait(n3);
    LATA=0b00000000;
    LATB=0b00000000;
    wait(n);
    LATA=0b00000001;
    LATB=0b11000000;
    wait(n);
    LATA=0b00000000;
    LATB=0b00000000;
    wait(n);
}

```

```
LATA=0b00000001;
LATB=0b11000000;
wait(n);
LATA=0b00000000;
LATB=0b00000000;
wait(n);
LATA=0b00000001;
LATB=0b11000000;
wait(n3);
LATA=0b00000000;
LATB=0b00000000;
wait(n3);
}
```

```
void morsey(n,n3){
    LATA=0b00000001;
    LATB=0b11000000;
    wait(n3);
    LATA=0b00000000;
    LATB=0b00000000;
    wait(n);
    LATA=0b00000001;
    LATB=0b11000000;
    wait(n);
    LATA=0b00000000;
    LATB=0b00000000;
    wait(n);
    LATA=0b00000001;
    LATB=0b11000000;
    wait(n3);
    LATA=0b00000000;
    LATB=0b00000000;
    wait(n);
    LATA=0b00000001;
    LATB=0b11000000;
    wait(n3);
    LATA=0b00000000;
    LATB=0b00000000;
    wait(n3);
}
```

```
void morsez(n,n3){
    LATA=0b00000001;
    LATB=0b11000000;
    wait(n3);
    LATA=0b00000000;
    LATB=0b00000000;
    wait(n);
    LATA=0b00000001;
    LATB=0b11000000;
    wait(n3);
    LATA=0b00000000;
    LATB=0b00000000;
    wait(n);
    LATA=0b00000001;
    LATB=0b11000000;
    wait(n);
    LATA=0b00000000;
    LATB=0b00000000;
    wait(n);
    LATA=0b00000001;
    LATB=0b11000000;
}
```

```
wait(n);
LATA=0b00000000;
LATB=0b00000000;
wait(n3);
}
```

```
void morse1(n,n3){
LATA=0b00000001;
LATB=0b11000000;
wait(n);
LATA=0b00000000;
LATB=0b00000000;
wait(n);
LATA=0b00000001;
LATB=0b11000000;
wait(n3);
LATA=0b00000000;
LATB=0b00000000;
wait(n);
LATA=0b00000001;
LATB=0b11000000;
wait(n3);
LATA=0b00000000;
LATB=0b00000000;
wait(n);
LATA=0b00000001;
LATB=0b11000000;
wait(n3);
LATA=0b00000000;
LATB=0b00000000;
wait(n);
LATA=0b00000001;
LATB=0b11000000;
wait(n3);
LATA=0b00000000;
LATB=0b00000000;
wait(n);
LATA=0b00000001;
LATB=0b11000000;
wait(n3);
LATA=0b00000000;
LATB=0b00000000;
wait(n3);
}
```

```
void morse2(n,n3){
LATA=0b00000001;
LATB=0b11000000;
wait(n);
LATA=0b00000000;
LATB=0b00000000;
wait(n);
LATA=0b00000001;
LATB=0b11000000;
wait(n);
LATA=0b00000000;
LATB=0b00000000;
wait(n);
LATA=0b00000001;
LATB=0b11000000;
wait(n3);
LATA=0b00000000;
LATB=0b00000000;
wait(n);
LATA=0b00000001;
LATB=0b11000000;
wait(n3);
LATA=0b00000000;
```

```
LATB=0b00000000;  
wait(n);  
LATA=0b00000001;  
LATB=0b11000000;  
wait(n3);  
LATA=0b00000000;  
LATB=0b00000000;  
wait(n3);  
}
```

```
void morse3(n,n3){  
    LATA=0b00000001;  
    LATB=0b11000000;  
    wait(n);  
    LATA=0b00000000;  
    LATB=0b00000000;  
    wait(n);  
    LATA=0b00000001;  
    LATB=0b11000000;  
    wait(n);  
    LATA=0b00000000;  
    LATB=0b00000000;  
    wait(n);  
    LATA=0b00000001;  
    LATB=0b11000000;  
    wait(n);  
    LATA=0b00000000;  
    LATB=0b00000000;  
    wait(n);  
    LATA=0b00000001;  
    LATB=0b11000000;  
    wait(n3);  
    LATA=0b00000000;  
    LATB=0b00000000;  
    wait(n);  
    LATA=0b00000001;  
    LATB=0b11000000;  
    wait(n3);  
    LATA=0b00000000;  
    LATB=0b00000000;  
    wait(n3);  
}
```

```
void morse4(n,n3){  
    LATA=0b00000001;  
    LATB=0b11000000;  
    wait(n);  
    LATA=0b00000000;  
    LATB=0b00000000;  
    wait(n);  
    LATA=0b00000001;  
    LATB=0b11000000;  
    wait(n);  
    LATA=0b00000000;  
    LATB=0b00000000;  
    wait(n);  
    LATA=0b00000001;  
    LATB=0b11000000;  
    wait(n);  
    LATA=0b00000000;  
    LATB=0b00000000;  
    wait(n);  
}
```



```
LATA=0b00000001;
LATB=0b11000000;
wait(n);
LATA=0b00000000;
LATB=0b00000000;
wait(n);
LATA=0b00000001;
LATB=0b11000000;
wait(n3);
LATA=0b00000000;
LATB=0b00000000;
wait(n3);
}
```

```
void morse5(n,n3){
LATA=0b00000001;
LATB=0b11000000;
wait(n);
LATA=0b00000000;
LATB=0b00000000;
wait(n);
LATA=0b00000001;
LATB=0b11000000;
wait(n);
LATA=0b00000000;
LATB=0b00000000;
wait(n);
LATA=0b00000001;
LATB=0b11000000;
wait(n);
LATA=0b00000000;
LATB=0b00000000;
wait(n);
LATA=0b00000001;
LATB=0b11000000;
wait(n);
LATA=0b00000000;
LATB=0b00000000;
wait(n);
LATA=0b00000001;
LATB=0b11000000;
wait(n);
LATA=0b00000000;
LATB=0b00000000;
wait(n3);
}
```

```
void morse6(n,n3){
LATA=0b00000001;
LATB=0b11000000;
wait(n3);
LATA=0b00000000;
LATB=0b00000000;
wait(n);
LATA=0b00000001;
LATB=0b11000000;
wait(n);
LATA=0b00000000;
LATB=0b00000000;
wait(n);
LATA=0b00000001;
LATB=0b11000000;
}
```

```
wait(n);
LATA=0b00000000;
LATB=0b00000000;
wait(n);
LATA=0b00000001;
LATB=0b11000000;
wait(n);
LATA=0b00000000;
LATB=0b00000000;
wait(n);
LATA=0b00000001;
LATB=0b11000000;
wait(n);
LATA=0b00000000;
LATB=0b00000000;
wait(n3);
}
```

```
void morse7(n,n3){
LATA=0b00000001;
LATB=0b11000000;
wait(n3);
LATA=0b00000000;
LATB=0b00000000;
wait(n);
LATA=0b00000001;
LATB=0b11000000;
wait(n3);
LATA=0b00000000;
LATB=0b00000000;
wait(n);
LATA=0b00000001;
LATB=0b11000000;
wait(n);
LATA=0b00000000;
LATB=0b00000000;
wait(n);
LATA=0b00000001;
LATB=0b11000000;
wait(n);
LATA=0b00000000;
LATB=0b00000000;
wait(n);
LATA=0b00000001;
LATB=0b11000000;
wait(n);
LATA=0b00000000;
LATB=0b00000000;
wait(n3);
}
```

```
void morse8(n,n3){
LATA=0b00000001;
LATB=0b11000000;
wait(n3);
LATA=0b00000000;
LATB=0b00000000;
wait(n);
LATA=0b00000001;
LATB=0b11000000;
wait(n3);
LATA=0b00000000;
```

```
LATB=0b00000000;
wait(n);
LATA=0b00000001;
LATB=0b11000000;
wait(n3);
LATA=0b00000000;
LATB=0b00000000;
wait(n);
LATA=0b00000001;
LATB=0b11000000;
wait(n);
LATA=0b00000000;
LATB=0b00000000;
wait(n);
LATA=0b00000001;
LATB=0b11000000;
wait(n);
LATA=0b00000000;
LATB=0b00000000;
wait(n3);
}
```

```
void morse9(n,n3){
LATA=0b00000001;
LATB=0b11000000;
wait(n3);
LATA=0b00000000;
LATB=0b00000000;
wait(n);
LATA=0b00000001;
LATB=0b11000000;
wait(n3);
LATA=0b00000000;
LATB=0b00000000;
wait(n);
LATA=0b00000001;
LATB=0b11000000;
wait(n3);
LATA=0b00000000;
LATB=0b00000000;
wait(n);
LATA=0b00000001;
LATB=0b11000000;
wait(n3);
LATA=0b00000000;
LATB=0b00000000;
wait(n);
LATA=0b00000001;
LATB=0b11000000;
wait(n);
LATA=0b00000000;
LATB=0b00000000;
wait(n3);
}
```

```
void morse0(n,n3){
LATA=0b00000001;
LATB=0b11000000;
wait(n3);
LATA=0b00000000;
LATB=0b00000000;
wait(n);
}
```

```

LATA=0b00000001;
LATB=0b11000000;
wait(n3);
LATA=0b00000000;
LATB=0b00000000;
wait(n);
LATA=0b00000001;
LATB=0b11000000;
wait(n3);
LATA=0b00000000;
LATB=0b00000000;
wait(n);
LATA=0b00000001;
LATB=0b11000000;
wait(n3);
LATA=0b00000000;
LATB=0b00000000;
wait(n);
LATA=0b00000001;
LATB=0b11000000;
wait(n3);
LATA=0b00000000;
LATB=0b00000000;
wait(n3);
}

```

```

void morseque(n,n3){
LATA=0b00000001;
LATB=0b11000000;
wait(n);
LATA=0b00000000;
LATB=0b00000000;
wait(n);
LATA=0b00000001;
LATB=0b11000000;
wait(n);
LATA=0b00000000;
LATB=0b00000000;
wait(n);
LATA=0b00000001;
LATB=0b11000000;
wait(n3);
LATA=0b00000000;
LATB=0b00000000;
wait(n);
LATA=0b00000001;
LATB=0b11000000;
wait(n3);
LATA=0b00000000;
LATB=0b00000000;
wait(n);
LATA=0b00000001;
LATB=0b11000000;
wait(n);
LATA=0b00000000;
LATB=0b00000000;
wait(n);
LATA=0b00000001;
LATB=0b11000000;
wait(n);
LATA=0b00000000;
LATB=0b00000000;
}

```

```
    wait(n3);
}
```

```
void morsear(n,n3){
    LATA=0b00000001;
    LATB=0b11000000;
    wait(n);
    LATA=0b00000000;
    LATB=0b00000000;
    wait(n);
    LATA=0b00000001;
    LATB=0b11000000;
    wait(n3);
    LATA=0b00000000;
    LATB=0b00000000;
    wait(n);
    LATA=0b00000001;
    LATB=0b11000000;
    wait(n);
    LATA=0b00000000;
    LATB=0b00000000;
    wait(n);
    LATA=0b00000001;
    LATB=0b11000000;
    wait(n3);
    LATA=0b00000000;
    LATB=0b00000000;
    wait(n);
    LATA=0b00000001;
    LATB=0b11000000;
    wait(n3);
    LATA=0b00000000;
    LATB=0b00000000;
    wait(n);
    LATA=0b00000001;
    LATB=0b11000000;
    wait(n3);
    LATA=0b00000000;
    LATB=0b00000000;
    wait(n);
    LATA=0b00000001;
    LATB=0b11000000;
    wait(n);
    LATA=0b00000000;
    LATB=0b00000000;
    wait(n3);
}
```

```
void morsekn(n,n3){
    LATA=0b00000001;
    LATB=0b11000000;
    wait(n3);
    LATA=0b00000000;
    LATB=0b00000000;
    wait(n);
    LATA=0b00000001;
    LATB=0b11000000;
    wait(n);
    LATA=0b00000000;
    LATB=0b00000000;
    wait(n);
    LATA=0b00000001;
    LATB=0b11000000;
    wait(n3);
    LATA=0b00000000;
    LATB=0b00000000;
    wait(n);
    LATA=0b00000001;
    LATB=0b11000000;
    wait(n3);
    LATA=0b00000000;
    LATB=0b00000000;
    wait(n);
    LATA=0b00000001;
    LATB=0b11000000;
    wait(n);
    LATA=0b00000000;
    LATB=0b00000000;
    wait(n3);
}
```

```
LATB=0b11000000;
wait(n);
LATA=0b00000000;
LATB=0b00000000;
wait(n3);
}
```

```
void morsesr(n,n3){
  LATA=0b00000001;
  LATB=0b11000000;
  wait(n3);
  LATA=0b00000000;
  LATB=0b00000000;
  wait(n);
  LATA=0b00000001;
  LATB=0b11000000;
  wait(n);
  LATA=0b00000000;
  LATB=0b00000000;
  wait(n);
  LATA=0b00000001;
  LATB=0b11000000;
  wait(n);
  LATA=0b00000000;
  LATB=0b00000000;
  wait(n);
  LATA=0b00000001;
  LATB=0b11000000;
  wait(n3);
  LATA=0b00000000;
  LATB=0b00000000;
  wait(n);
  LATA=0b00000001;
  LATB=0b11000000;
  wait(n);
  LATA=0b00000000;
  LATB=0b00000000;
  wait(n3);
}
```

```
void wait(n){
  int i;
  for(i=0; i<n; i++){
    _delay_ms(10);
  }
}
```