```
int digit1 =  A1;
int digit2 =  A2;
int digit3 =  A3;
int digit4 =  A4;

int A =  1;
int B =  2;
int C =  3;
int D =  4;
int E =  5;
int F =  6;
int G =  7;


void setup() {
  pinMode(A1, OUTPUT) ;
  pinMode(A2, OUTPUT) ;
  pinMode(A3, OUTPUT) ;
  pinMode(A4, OUTPUT) ;
  pinMode(1, OUTPUT) ;
  pinMode(2, OUTPUT) ;
  pinMode(3, OUTPUT) ;
  pinMode(4, OUTPUT) ;
  pinMode(5, OUTPUT) ;
  pinMode(6, OUTPUT) ;
  pinMode(7, OUTPUT) ;

  //Désactivation de tous les digits
  digitalWrite(digit1, HIGH);
  digitalWrite(digit2, HIGH);
  digitalWrite(digit3, HIGH);
  digitalWrite(digit4, HIGH);
}


void loop() {

  setAfficheur(1765);

}


//------------------------------
//    Définition des FONCTIONS
//------------------------------
void setNumber(int nombre) {
  switch (nombre) {
```

```
case 1 :
  digitalWrite(A, 0) ;
  digitalWrite(B, 1) ;
  digitalWrite(C, 1) ;
  digitalWrite(D, 0) ;
  digitalWrite(E, 0) ;
  digitalWrite(F, 0) ;
  digitalWrite(G, 0) ;
break;

case 2 :
  digitalWrite(A, 1) ;
  digitalWrite(B, 1) ;
  digitalWrite(C, 0) ;
  digitalWrite(D, 1) ;
  digitalWrite(E, 1) ;
  digitalWrite(F, 0) ;
  digitalWrite(G, 1) ;
break;

case 3 :
  digitalWrite(A, 1) ;
  digitalWrite(B, 1) ;
  digitalWrite(C, 1) ;
  digitalWrite(D, 1) ;
  digitalWrite(E, 0) ;
  digitalWrite(F, 0) ;
  digitalWrite(G, 1) ;
break;

case 4 :
  digitalWrite(A, 0) ;
  digitalWrite(B, 1) ;
  digitalWrite(C, 1) ;
  digitalWrite(D, 0) ;
  digitalWrite(E, 0) ;
  digitalWrite(F, 1) ;
  digitalWrite(G, 1) ;
break;

case 5 :
  digitalWrite(A, 1) ;
  digitalWrite(B, 0) ;
  digitalWrite(C, 1) ;
  digitalWrite(D, 1) ;
  digitalWrite(E, 0) ;
  digitalWrite(F, 1) ;
  digitalWrite(G, 1) ;
```

```
        break;

    case 6 :
      digitalWrite(A, 1) ;
      digitalWrite(B, 0) ;
      digitalWrite(C, 1) ;
      digitalWrite(D, 1) ;
      digitalWrite(E, 1) ;
      digitalWrite(F, 1) ;
      digitalWrite(G, 1) ;
    break;

    case 7 :
      digitalWrite(A, 1) ;
      digitalWrite(B, 1) ;
      digitalWrite(C, 1) ;
      digitalWrite(D, 0) ;
      digitalWrite(E, 0) ;
      digitalWrite(F, 0) ;
      digitalWrite(G, 0) ;
    break;

    case 8 :
      digitalWrite(A, 1) ;
      digitalWrite(B, 1) ;
      digitalWrite(C, 1) ;
      digitalWrite(D, 1) ;
      digitalWrite(E, 1) ;
      digitalWrite(F, 1) ;
      digitalWrite(G, 1) ;
    break;

    case 9 :
      digitalWrite(A, 1) ;
      digitalWrite(B, 1) ;
      digitalWrite(C, 1) ;
      digitalWrite(D, 1) ;
      digitalWrite(E, 0) ;
      digitalWrite(F, 1) ;
      digitalWrite(G, 1) ;
    break;

    case 0 :
      digitalWrite(A, 1) ;
      digitalWrite(B, 1) ;
      digitalWrite(C, 1) ;
      digitalWrite(D, 1) ;
      digitalWrite(E, 1) ;
```

```
        digitalWrite(F, 1) ;
        digitalWrite(G, 0) ;
      break;

      default:
        digitalWrite(A, 0) ;
        digitalWrite(B, 0) ;
        digitalWrite(C, 0) ;
        digitalWrite(D, 0) ;
        digitalWrite(E, 0) ;
        digitalWrite(F, 0) ;
        digitalWrite(G, 1) ;
      break;
    break;
    }
}

void setDigit(int digit, int nombre) {
  switch(digit) {
    case 1 :
      digitalWrite(digit1, LOW) ;
      digitalWrite(digit2, HIGH) ;
      digitalWrite(digit3, HIGH) ;
      digitalWrite(digit4, HIGH) ;
      setNumber(nombre) ;
    break;

    case 2 :
      digitalWrite(digit1, HIGH) ;
      digitalWrite(digit2, LOW) ;
      digitalWrite(digit3, HIGH) ;
      digitalWrite(digit4, HIGH) ;
      setNumber(nombre) ;
    break;

    case 3 :
      digitalWrite(digit1, HIGH) ;
      digitalWrite(digit2, HIGH) ;
      digitalWrite(digit3, LOW) ;
      digitalWrite(digit4, HIGH) ;
      setNumber(nombre) ;
    break;

    case 4 :
      digitalWrite(digit1, HIGH) ;
      digitalWrite(digit2, HIGH) ;
      digitalWrite(digit3, HIGH) ;
      digitalWrite(digit4, LOW) ;
```

```
      setNumber(nombre) ;
    break;

  }
}

void setAfficheur(int nombre) {
  int M = nombre/1000, C = (nombre-M*1000)/100, D = (nombre-M*1000-C*100)/10,
U=(nombre-M*1000-C*100-D*10) ;
  setDigit(4, U) ;
  delay(2);
  setDigit(3, D) ;
  delay(2);
  setDigit(2, C) ;
  delay(2);
  setDigit(1, M) ;
  delay(2);

}
```