void setup() {

Serial.begin(9600);

}

//EX01

int eleCount = 0;

int vacCount = 0;

//EX02

char targetNumber[3] = {'1', '5', '9'};

char insertNumber[3] = {'1', '1', '1'};

int wordTag = 0 ;

void loop() {

Ex\_01();

}

void Ex\_01()

{

if(Serial.available()){

char x = Serial.read();

eleCount = eleCount + 1 ;

if( x == '\n' )

{

vacCount = vacCount + 1 ;

eleCount = eleCount - 1;

Serial.println("");

Serial.print("CharNumber:");

Serial.println(eleCount);

Serial.print("WordCount:");

Serial.println(vacCount);

eleCount = 0 ;

vacCount = 0;

}

if( x == ' ' )

{

vacCount = vacCount + 1 ;

}

Serial.print(x);

}

}

// 猜數字

void Ex\_02()

{

if(Serial.available()){

if( wordTag > 3 ){

Serial.println("字數長度輸入錯誤喔!");

wordTag = 0;

insertNumber[0] = "";

insertNumber[1] = "";

insertNumber[2] = "";

return;

}

char x = Serial.read();

if( x == '\n' )

{

if ( wordTag == 0 )

return;

// 比對猜數字狀態

int A = 0;

int B = 0;

int i = 0;

int j = 0;

for( i=0;i<3;i++)

{

for( j=0;j<3;j++)

{

if ( (insertNumber[i] == targetNumber[j]) && (i==j) )

{

A = A + 1;

}

else if ( insertNumber[i] == targetNumber[j] )

{

B = B + 1 ;

}

}

}

Serial.println("");

Serial.print(A);Serial.print("A");

Serial.print(B);Serial.print("B");

Serial.println("");

wordTag = 0;

insertNumber[0] = "";

insertNumber[1] = "";

insertNumber[2] = "";

return;

}

insertNumber[wordTag] = x ;

wordTag = wordTag + 1 ;

Serial.print(x);

}

}