

U02_202_snippet

main.xml

<!-- TO DO -->

```
<EditText
    android:id="@+id/input_number"
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:inputType="number"
    android:maxLength="3"
    android:text="" />
```

```
<TextView
    android:id="@+id/respond"
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:text=""/>
```

GDD02.java (Activity)

// TO DO

//判斷輸入數字符合規則

private boolean isLegal(String num){

// TO DO

if(num==null||num.length()!=3){//檢查長度

return false;

}else if(num.charAt(0)==num.charAt(1)//檢查是否有重複數字

||num.charAt(0)==num.charAt(2)

||num.charAt(1)==num.charAt(2)

{

return false;

}

//其他為正確情況

return true;

}

```
private int getAnum(String num,String luckyNum){
    int aNum =0;
    for (int i=0;i<luckyNum.length();i++){
        if(num.charAt(i)==luckyNum.charAt(i)){
            aNum++;
        }
    }
    return aNum;
}
```

```
private int getBnum(String num,String luckyNum){
    int bNum =0;
    for (int i=0;i<luckyNum.length();i++){
        char x = luckyNum.charAt(i);
        if(num.charAt(i)==luckyNum.charAt(i)){//A NUM 情況跳過
        }else{
            // 自串有包含數字則+1
            int pos = num.indexOf(x);
            if(pos>=0)bNum++;
        }
    }
    return bNum;
}
```

```

//按鈕事件
@Override
public void onClick(View v) {
    String userNum = edInputNum.getText().toString();
    // TO DO
    if(!isLegal(userNum)){
        edInputNum.setText("");//清空輸入框
        String msg = "輸入錯誤"+getText(R.string.title);
        tvRespond.setText(msg);

    }else{
        int numA = getAnum(userNum, luckyNum);
        int numB = getBnum(userNum, luckyNum);
        //
        if(numA==luckyNum.length()){
            //不清空輸入框
            String msg = String.format("INPUT 的數字 : %s 恭喜你答對了! 答案 : %s",userNum,luckyNum);
            tvRespond.setText(msg);
        }else {
            edInputNum.setText("");//清空輸入框
            String msg = String.format("INPUT 的數字 : %s = %dA%dB",userNum,numA,numB);
            tvRespond.setText(msg);
        }
    }
}
}
}

```