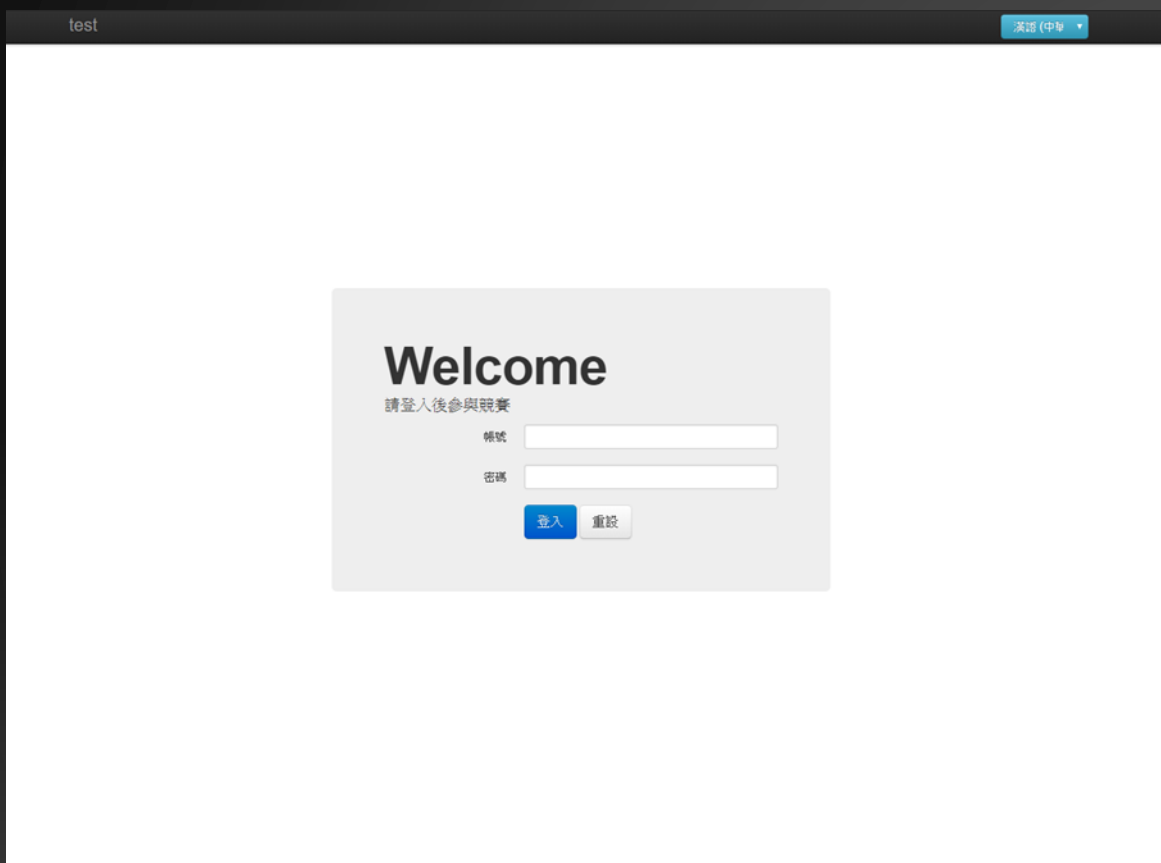


*APCS*增能班

字串(*STRING*)



測驗



The screenshot shows a web browser window with a dark header bar containing the text "test" on the left and a language dropdown menu "英語 (中華)" on the right. The main content area is white and features a light gray rectangular box in the center. Inside this box, the word "Welcome" is displayed in a large, bold, black font. Below it, the text "請登入後參與競賽" (Please log in to participate in the competition) is shown in a smaller black font. Underneath this text are two input fields: the first is labeled "帳號" (Username) and the second is labeled "密碼" (Password). At the bottom of the box are two buttons: a blue button labeled "登入" (Log In) and a gray button labeled "重設" (Reset).

- 進入測驗網站
- 帳號與密碼皆為您的學號



INTRODUCTION

- *Strings are objects that represent sequences of characters.*



SAMPLE

- Code

```
#include <iostream>
//string constructor
#include <string>

int main(){
    std::string a0a = "123456789";
    std::string a0b ("123456789");
    std::string a1;
    std::string a2a (a0a);
    std::string a2b = a0a;
    std::string a3a (a0a, 4, 2);
    std::string a3b ("123456789", 5, 3);
    std::string a4a (a0a, 4);
    std::string a4b ("123456789", 7);
    std::string a5a (10, 'x');
    std::string a5b (10, 42); // 42 is the ASCII code for '*'
    std::string a6 (a0a.begin() , a0a.begin()+5);
}
```

- Output

```
a0a: 123456789
a0b: 123456789
a1:
a2a: 123456789
a2b: 123456789
a3a: 56
a3b: 678
a4a: 56789
a4b: 1234567
a5a: xxxxxxxxxxxx
a5b: *****
a6: 12345
```



FUNCTION

- *size* - Returns the length of the string
- *begin* - Return iterator to beginning
- *end* - Return iterator to end
- *to_string* - Returns a string with the representation of numerical value



SAMPLE

- *Code*

```
#include <iostream>
//string constructor
#include <string>

int main(){
    std::string num = std::to_string(31239);
    int size=num.size();
}
```

- *Output*

```
num: 31239
size: 5
```

