

## 1 登入評分系統

1. 在 Username 輸入你的帳號。
2. 在 Password 輸入你的密碼。
3. 按下 Login 按鈕。

Figure 1: 登入評分系統

The login form is titled "Welcome" and says "Please log in". It contains two input fields: "Username" with the value "sample\_user" and "Password" with masked characters "\*\*\*\*\*". Below the fields are two buttons: "Login" and "Reset". Numbered steps are shown: "1." points to the Username field, "2." points to the Password field, and "3." points to the Login button.

## 2 開始比賽

登入後，會切換到進入比賽的頁面。於是請按下“Start!”進入比賽。

Figure 2: 開始比賽

The page is titled "北市賽 - 模擬練習" and shows the user is logged in as "user sample (sample\_user)". It displays the server time "00:57:11" and the time until the contest ends "367:02:48". The "Overview" section includes "General information" stating the contest is running and started on 2013-10-11. A red arrow points to a large red "Start!" button. To the right of the button, text explains that users can submit solutions for a 5-hour time frame and that clicking the button starts the time frame.

### 3 總覽頁

接下來可以看到整個比賽的資訊。左上角可以看到剩餘時間，右側可以看到所有题目的資訊。右下角的表格依序解釋如下：

- 題目名 (Task)
- 完整題目名 (Name)
- 執行時間限制 (Time limit)：表示對於每一筆測試資料，你的程式可以執行多久。
- 記憶體用量限制 (Memory limit)：表示對於每一筆測試資料，你的程式可以使用的記憶體上限。
- 題目類型 (Type)：題目有兩種類型，分別為“Batch”和“Output Only”。稍後會再介紹。
- 需要上傳的檔案名稱 (Files)：根據不同的題目類型而有所不同。

Figure 3: 題目總覽

北市賽 - 模擬練習

Logged in as user sample (sample\_user) Logout

現在時間  
Server time: 23:37:09

Time left: 368:22:50  
比賽剩餘時間

Overview

Communication

CODE

Statement

Submissions

JACK

Statement

Submissions

MULTIPLE

Statement

Submissions

Documentation

Testing

Contest Management System is released under the GNU Affero General Public License.

### Overview

#### General information

The contest is currently running.

The contest started at 2013-10-11 12:56:23 and will end at 2013-11-02 08:00:00.

#### Task overview

Task	Name	Time limit	Memory limit	Type	Files
code	code	1 second	512 MiB	Output only	output_0.txt
jack	jack	5 seconds	512 MiB	Batch	jack.[c cpp pas]
multiple	multiple	5 seconds	512 MiB	Batch	multiple.[c cpp pas]

題目名 (簡寫)

執行時間限制

題目類型

完整題目名

記憶體用量限制

需上傳的檔案名稱

## 4 解題

題目類型有分兩種，分別為 “Batch” 和 “Output Only”。

### 4.1 Batch 類題目

傳統的 Input / Output 題。你需要撰寫一個程式，在指定的執行時間和記憶體用量限制內，用指定的方式讀入，並用指定的方式輸出。

#### 4.1.1 題目敘述下載

點選該題的 “Statement” 後，可以看到以下的畫面。點下 “Download task statement” 來下載題目。題目將會是 pdf 格式。

本頁面的右下角的有這題的詳細資訊，包含編譯時所用的編譯器參數。

Figure 4: Batch 類題目概述

The screenshot shows the Contest Management System interface for a task named "jack (jack)". The interface is divided into several sections:

- Header:** "北市賽 - 模擬練習" (Beishijai - Simulation Practice) and "Logged in as user sample (sample\_user) Logout".
- Server time:** "00:15:10".
- Time left:** "367:44:49".
- Left Sidebar:** A list of navigation links: Overview, Communication, CODE, Statement, Submissions, JACK, Statement (highlighted with a red box and labeled "1."), Submissions, MULTIPLE, Statement, Submissions, Documentation, and Testing.
- Main Content Area:**
  - jack (jack) description**
  - Statement:** A section with a red arrow pointing to a green button labeled "Download task statement", with the text "2. 題目pdf下載" (2. Download task statement as pdf) next to it.
  - Some details:** A table with the following data:

Type	Batch
Time limit	5 seconds
Memory limit	512 MiB
Compilation commands	C: /usr/bin/gcc -DEVAL -static -O2 -o jack jack.c -lm C++: /usr/bin/g++ -DEVAL -static -O2 -o jack jack.cpp Pascal: /usr/bin/fpc -dEVAL -XS -O2 -o jack jack.pas

At the bottom left, there is a note: "Contest Management System is released under the GNU Affero General Public License."

#### 4.1.2 上傳至評分系統

如果你已經寫好題目要求的程式，則可以上傳到評分系統中批改。按下送出前記得檢查上傳的檔案是否正確。這可能會需要等一陣子。改好了之後，你可以在本頁面查看每次上傳的得分。而你也可以並按下“**detail**”進一步觀看細節。

如果你拿到了滿分會是綠色，如果只拿了部分的分數會是黃色，如果該題 0 分則會顯示紅色。

Figure 5: Batch 類題目上傳及結果

北市賽 - 模擬練習

Logged in as user sample (sample\_user) Logout

Server time: 00:09:21  
Time left: 367:50:38

jack (jack) submissions

Submit a solution

2. jack 選擇檔案 未選擇檔案 3. 4. Submit Reset

Previous submissions

Time	Status	Public score	Total score	Files
00:09:06	Evaluated	100 / 100	N/A	Download
00:08:55	Evaluated	80 / 100	N/A	Download
00:08:46	Evaluated	0 / 100	N/A	Download
00:08:27	Compilation failed	N/A	N/A	Download

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#### 4.1.3 評分細節

如果你是編譯錯誤 (Compilation failed)，將可以看到編譯時的錯誤訊息。下面的例子是有變數未宣告而造成的編譯錯誤。

Figure 6: Batch 類編譯錯誤的細節頁面

Submission details 測試資料執行結果

Outcome Details Execution time Memory used

Compilation output 編譯結果

Compilation outcome: Compilation failed

Compilation time: 編譯所花的時間 0.032 s

Memory used: 編譯所花的記憶體 4.6 MIB

Standard output 編譯器的標準輸出(stdout)內容

Standard error 編譯器的標準錯誤輸出(stderr)內容

```

jack.cpp: In function 'int main()':
jack.cpp:6:5: error: 'I_will_win_the_champion' was not declared in this scope
jack.cpp:8:37: warning: ignoring return value of 'FILE* freopen(const char*, const char*, FILE*)', declared with attribute warn_unused_result [-Wunused-result]
jack.cpp:9:39: warning: ignoring return value of 'FILE* freopen(const char*, const char*, FILE*)', declared with attribute warn_unused_result [-Wunused-result]
jack.cpp:21:36: warning: ignoring return value of 'int scanf(const char*, ...)', declared with attribute warn_unused_result [-Wunused-result]

```

Close

如果你通過了編譯，則可以看到部分或全部的測試結果，以及如此評分的原因。而下方仍然會有編譯時期的一些資訊。

下面的例子是上傳者的程式並未產生規定的“**output.txt**”檔。

Figure 7: Batch 類得 0 分的細節頁面內容

Submission details

Outcome	Details	Execution time	Memory used
Not correct	執行檔未產生指定的輸出檔 <b>output.txt</b> Evaluation didn't produce file <b>output.txt</b>	0.000 s	256 KiB
Not correct	Evaluation didn't produce file output.txt	0.000 s	256 KiB
Not correct	Evaluation didn't produce file output.txt	0.000 s	256 KiB
Not correct	Evaluation didn't produce file output.txt	0.000 s	256 KiB
Not correct	Evaluation didn't produce file output.txt	0.000 s	256 KiB

Compilation output

Compilation outcome:	Compilation succeeded
Compilation time:	0.128 s
Memory used:	21.9 MiB

Standard output

Close

Figure 8: Batch 類只得部分和滿分的細節頁面內容

Outcome	Details	Execution time	Memory used
Correct	Output is correct	0.000 s	256 KiB
Correct	Output is correct	0.000 s	256 KiB
Correct	Output is correct	0.000 s	256 KiB
Correct	Output is correct	0.000 s	256 KiB
Not correct	Output isn't correct	0.000 s	256 KiB

Outcome	Details	Execution time	Memory used
Correct	Output is correct	0.000 s	256 KiB
Correct	Output is correct	0.000 s	256 KiB
Correct	Output is correct	0.000 s	256 KiB
Correct	Output is correct	0.000 s	256 KiB
Correct	Output is correct	0.000 s	256 KiB

## 4.2 Output Only 類題目

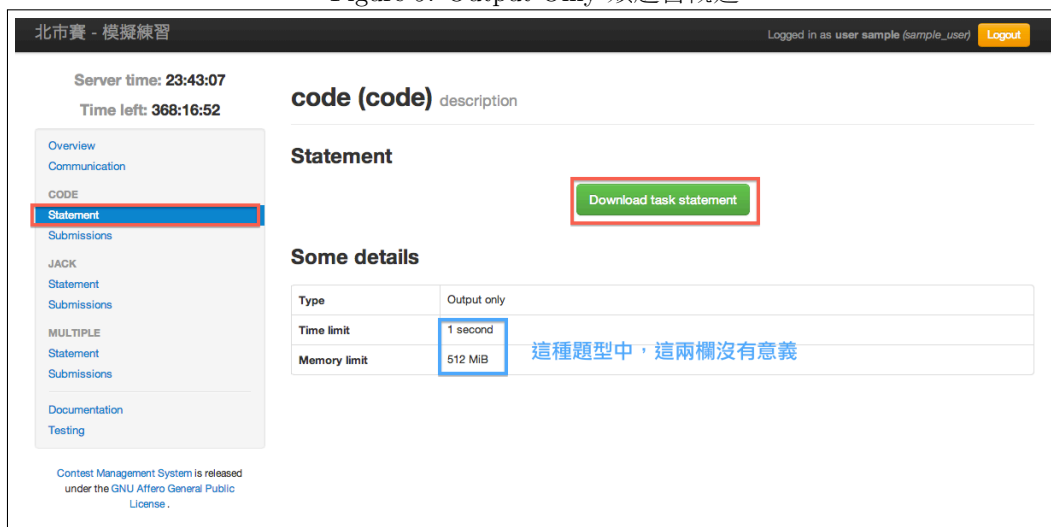
這種類型的題目不會管理你用什麼方式去求出答案。例如：手算答案、寫個程式算、寫一堆程式算、靈光一現的神來一筆等等。這些都可以接受。

你唯一要做的事情是把答案按照題目所述的格式填入至檔案，並上傳。

### 4.2.1 題目敘述下載

跟 batch 類一樣。不過這種題目類型的執行時間限制和記憶體限制是沒有意義的。

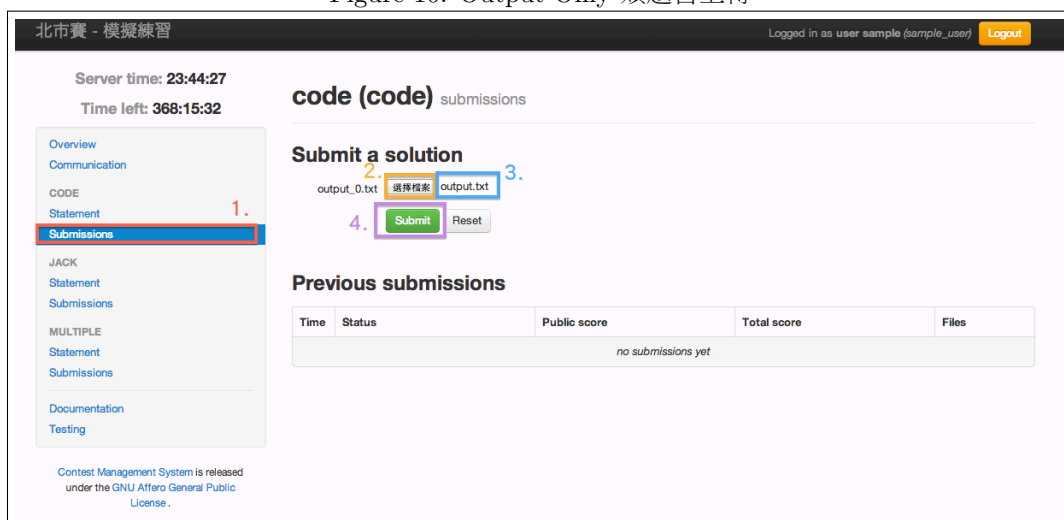
Figure 9: Output Only 類題目概述



### 4.2.2 上傳至評分系統

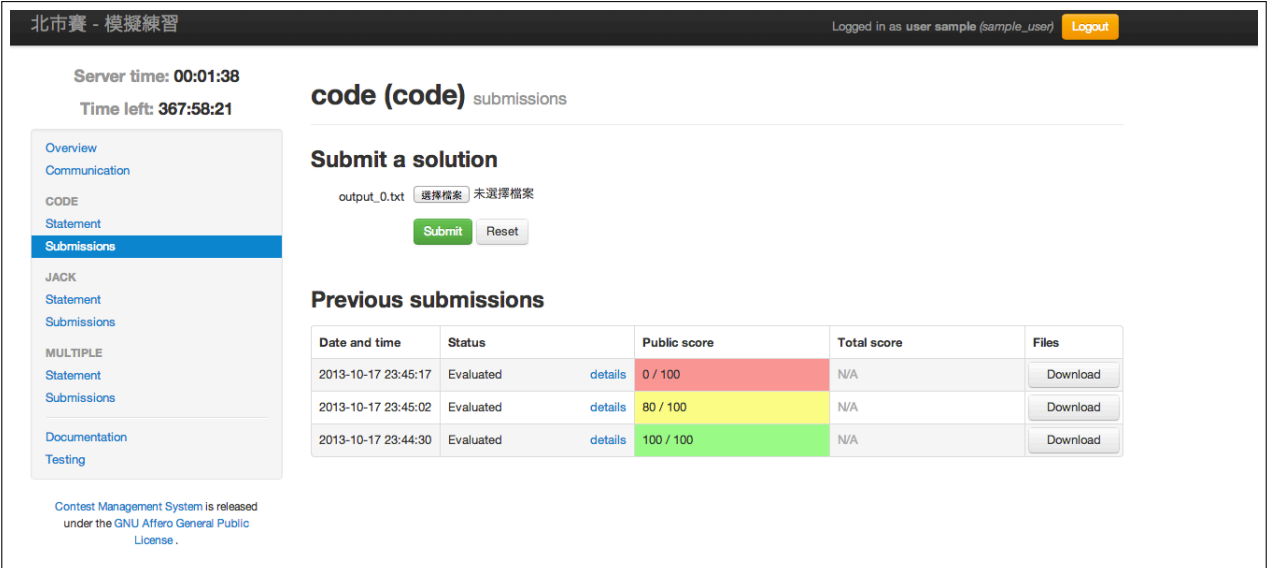
上傳的方式相同。不過也一樣要注意按下送出前記得檢查上傳的檔案是否正確。

Figure 10: Output Only 類題目上傳



上傳後同樣可以看到結果。

Figure 11: Output Only 類題目上傳結果



底下是各種得分類型的細節頁面。老樣子，編譯相關的資訊在這種題型是沒有意義的。

Figure 12: Output Only 類各種得分的細節頁面內容

Outcome	Details	Execution time	Memory used
Not correct	0/5 (correct/total)	N/A	N/A

Outcome	Details	Execution time	Memory used
Partially correct	4/5 (correct/total)	N/A	N/A

Outcome	Details	Execution time	Memory used
Correct	5/5 (correct/total)	N/A	N/A

## 5 提問與公告

### 5.1 提問

如果你對題目有疑義。目錄上有個“Communication”，點下它後會看到以下這個頁面。在“subject”框裡輸入你的標題，並在“text”中寫入你的問題內容。最後按下“Ask question”送出你的問題。

Figure 13: 提問頁面

The screenshot shows the 'Communication' page. On the left is a sidebar menu with 'Communication' highlighted. The main area has a 'Questions' section with input fields for 'Subject' (containing '提問相關') and 'Text' (containing '提問可不可以使用中文呢?'). Below these is an 'Ask question' button and a 'Reset' button. Red numbers 1 through 4 are overlaid on the image: 1 points to the 'Communication' menu item, 2 points to the 'Questions' header, 3 points to the 'Text' input field, and 4 points to the 'Ask question' button.

Figure 14: 送出後

The screenshot shows the 'Communication' page after a question has been submitted. A green notification box in the top right corner says 'Question received' and 'Your question has been received, you will be notified when the it will be answered.' The 'Questions' section now displays the submitted question: '提問相關' and '提問可不可以使用中文呢?' with a timestamp of '23:38:04'. Below the question, it says 'no answer yet'. The 'Ask question' and 'Reset' buttons are still present but disabled.



## 5.2 回答或公告通知

如果裁判回答你的問題或是有公告的話會在右上角跳出小框框告訴你，且“Communication”旁會有個“Unread”告訴你有未讀的資訊。

Figure 15: 回答或公告通知

北市賽 - 模擬練習

Logged in as user sample (sample\_user) Logout

Server time: 23:42:16  
Time left: 368:17:43

**Overview**

Communication **1 unread**

CODE  
Statement  
Submissions

JACK  
Statement  
Submissions

MULTIPLE  
Statement  
Submissions

Documentation  
Testing

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**General information**

The contest is currently running.  
The contest started at 2013-10-11 12:56:23 and will end at 2013-11-02 08:00:00.

**Task overview**

Task	Name	Time limit	Memory limit	Type	Files
code	code	1 second	512 MIB	Output only	output_0.txt
jack	jack	5 seconds	512 MIB	Batch	jack.[c cpp pas]
multiple	multiple	5 seconds	512 MIB	Batch	multiple.[c cpp pas]

## 5.3 回答後的提問頁

點進去“Communication”後，你的提問結果會回覆在底下，而上方是公告。

Figure 16: 裁判已回答的提問頁面

北市賽 - 模擬練習

Logged in as user sample (sample\_user) Logout

Server time: 23:42:30  
Time left: 368:17:29

**Communication**

Announcements 公告

提問用的語言  
絕對可以用中文噢！ ^.< (微笑)

公告發佈時間 23:41:31

Questions 你的提問

Subject

Text

Ask question Reset

提問相關  
提問可不可使用中文呢？

提問時間 23:38:04

Yes 裁判的回答

回答時間 23:41:55