36-HOUR OSS WEBDEV CONTEST 2010

CONTEST ENTRY FORM

1. Contact info:

Name of team: ……
(Maximum 20 characters)

Contact address: ……

……

Contact person: ……

Contact email: ……

Contact handphone: …… Fax: ……

[ ] Government Agency Group [ ] Student Group [ ] Open Group

2. For Government Agency Group and Student Group only:

Agency/Institute: ……

Director General/Secretary General/Dean: ……

I agree that this team will represent my agency/school to participate in the **36-Hour OSS WebDev Contest 2010** and fully abide to the contest terms and conditions.

…… ……

Official Stamp

Signature of Director General/Secretary General/Dean
Date :

* All contest entries without official stamp and signature will be treated as Open Group.
* Agency/School can enrol more than one team. Each team need to submit separate Contest Entry Form.

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3. Contest team:

No.	Role	Name	MyKAD No.
1	Team leader	Email:	
2		Email:	
3		Email:	

4. What will the team use in the 36-Hour OSS WebDev Contest 2010?

Programming language: ……

Development tools: ……

……

……

Database : ……

Web server: ……

5. Please answer the following questions (for short-listing evaluation):

a) The Tower of Hanoi is a mathematical game that consists of three (3) rods, and a number of disks of different sizes which can slide onto any rod. The puzzle starts with the disks neatly stacked in order of size on one rod, the smallest at the top, thus making a conical shape (Figure 1).

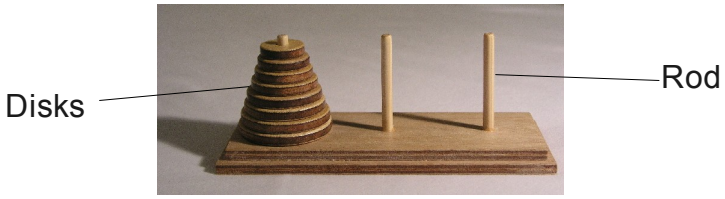

Figure 1: Tower of Hanoi

The objective of this puzzle is to **move the entire stack from one rod to another**, obeying the following rules:

- Only one disk may be moved at a time.
- Each move consists of taking the upper disk from one of the pegs and sliding it onto another rod, on top of the other disks that may already be present on that rod.
- No disk may be placed on top of a smaller disk.

On separate sheet of paper, please write a program using open source programming language to solve the Tower of Hanoi Puzzle consisting of **any number of disk** in the most creative way, using the most optimised program codes.

The smallest disk should call “Disk 1”, second smallest is “Disk 2”, third smallest is “Disk 3”, and so on.

The left rod is “Rod A”, middle one is “Rod B” and the right rod is “Rod C”.

Your program should accept the number of disk as input, and output the steps to solve the puzzle. Sample output:

```
Step 1: Move Disk 1 from Rod A to Rod B
Step 2: Move Disk 2 from Rod A to Rod C
...
```

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Your answer should include the following information:

i. The programming language used, including version number
ii. Describe the algorithm and methodology used. Why you choose this method?
iii. The complete program codes with explanatory remarks
iv. The result of running your program to move 5 disks from Rod A to Rod C

b) Please provide two (2) reasons why your team must be short-listed into the 36-Hour OSS WebDev Contest 2010. (Maximum 50 words)

Closing date for Contest Entry Form submission: **1 September 2010**.
Announcement of short-listed contest teams: **15 September 2010**.
Contest date: **5-7 October 2010**.

Please fax the completed Contest Entry Form to 03-83193206 or email to mygosscon@oscc.org.my or send to the following address:

36-HOUR OSS WEBDEV CONTEST 2010
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