



雪隆八独中电脑工作营
Klang Valley Independent High School
Computing Camp



**Fun and Creative Problem Solving
in Mathematics and Computer Science**

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(05 June 2010, Saturday, 12:30—3:30pm)

Experience the fun of problem solving

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What I *do* and *like to do*...

Research:
Design and analysis of algorithms
[算法设计与分析]
Transportation Logistics
Computational Biology
[生物信息学]

Teaching:
Algorithms Design and Analysis
Discrete Mathematics
Graph Theory and Algorithms
Problem Solving in Computing
Invitation to Computer Science (USP)

Selected Hobbies:
Mentor / Develop Talents
[SMP, SRP, UROP, etc]
National Olympiad in Informatics
[新加坡信息学奥林匹克竞赛]
International Olympiad in Informatics
[国际信息学奥林匹克竞赛]



[编程程序::极端应用软件::]
[24小时不间断编程大赛]

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Career and Employability of IT Graduates

11 May 2008

I have come to Chong Hwa several times. (eg: 2008)


Leong Hon Wai
Soo Yuen Jien
(Chong Hwa 1989—94)



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Fun and CPS in Math-CS

Overview of Workshop

- ❖ **The Tourist Problem** 
 - ◆ Hands-on Activity 1, 2, (may be 3)
- ❖ **Zero Knowledge Proofs**
 - ◆ Demo
- ❖ **Creative Problem Solving**
 - ◆ Hands-on Activity 4 and more...

Url: <http://www.comp.nus.edu.sg/~leonghw/Outreach/2010-06-KL/>

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FIND SOMEONE WHO

lives outside KL / PJ

came to workshop by bus/LRT

has not written a computer program before

loves rainy weather

has played 三国 before

Find two non-computer related hobbies of YOUR TEAM LEADER

plays a musical instrument

loves mathematics

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Team Leaders:

| | |
|---|-----------|
| <input type="checkbox"/> Cheh Carmen | Apple |
| <input type="checkbox"/> Goh Chun Lin | Acer |
| <input type="checkbox"/> Liew Ee Chan | Google |
| <input type="checkbox"/> Lim Boon Hwee, Matthew | Turing |
| <input type="checkbox"/> Liu Bin | Facebook |
| <input type="checkbox"/> Loh Bo Huai, Victor | Knuth |
| <input type="checkbox"/> Tan Boon Eng, Jonathan | Solaris |
| <input type="checkbox"/> Tan Teong Jin | Intel |
| <input type="checkbox"/> Tham Yong Xiang | MindStorm |
| <input type="checkbox"/> Wong MingRui | Adobe |
| <input type="checkbox"/> Yan Ke | Pentium |
| <input type="checkbox"/> Melvin Zhang | Randy |



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Quote from a former student...

□ Melvin Leok (1992)

- ❖ GEP Research Project, Sec. 2, Raffles Institution (RI)
- ❖ Research Project on "Graph Colouring" with me



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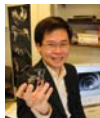
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Quote from Prof. Melvin Leok

"In research, you will have to become comfortable dealing with things for which neither you, nor anyone else, know all the answers.

It is tempting to spend time over preparing by reading books and papers, but at the end, there is simply no substitute for jumping right in, and learning things and finding things out for yourself along the way.

Do not be afraid of making mistakes, it is an integral part of the discovery and learning process."



Dr. Melvin Leok (Jan 2010)

Associate Professor of Mathematics, University of California, San Diego

ACPS class of 1987, RI class of 1991, RJC class of 1993,
B.S., M.S., 2000, Caltech, Ph.D., 2004, Caltech.

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Quiz Question #1:

If in Prof Wong's gamble, we start with **45 red beans** and **90 green beans**, how will you bet?

Red or Green

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Quiz Question #2:

Name *at least two* team leaders who are helping out in this workshop today.

Note: Other than *your* Team Leader.

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Thank you!

If you want to contact me,
go email, MSN, FB at leongfw@comp.nus.edu.sg



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