

There are 10 kinds of people in the
world,
those who understand binary
numbers, and those who don't.

Searching and Sorting

Session Schedule

10:00	10:10	Introductions: Pat Finnigan, Class, IEEE, TISP, STAO
10:10	10:30	Review of Binary – where does it fit in the curriculum?
		Binary Blue – Binary for the Younger Set
10:30	10:40	Review Sorting
10:40	10:50	Binary Sort
10:50	11:00	Break
11:00	11:15	More about IEEE, TISP, Lesson Plans, Binary Resources
11:15	11:30	Review data design and searching project
11:30	11:55	Searching project workshop
11:55	12:00	Review, lessons learned, feedback

* To be updated as we move through the material

Binary – Random Thoughts

- Other Positional, Radix Systems are H-M-S
- First-Order predicate logic was the first NP Complete proof (Stephen Cook)
- Analysis of algorithms involves: design, develop, analyze, implement, validity checking, refinement

Binary Resources

- Binary History: Wikipedia
- Sort Lab: math.hws.edu/TMCM/Java/xSortLab
- Sorting Algorithms: www.sorting-algorithms.com
- Binary Number Systems: www.mathisfun.com
- Binary Bingo Practice (Kevin James):
<http://courses.cs.vt.edu/~cs1104/Bingo/bingo.kevin.html>
- TISP: ieee.ca/tisp
- TryEngineering: www.TryEngineering.org
- TryComputing: www.TryComputing.org