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Professional Development Webinars

Advanced Topics in Computer Science: Constructing Searching and Sorting Algorithms

Spring 2018

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Moderator Bio

Mike Houston

T^3 National Instructor
Riverside High School
Ellwood City, PA

Mike is in his thirteenth year of teaching high school mathematics in Ellwood City, PA. While participating in a TI-Navigator™ Fast-Track in 2007, he learned how technology can effectively cultivate students' wide range of learning styles. During this time, Mike has served as a T^3 National Instructor and a contributing author for MathForward™.

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Panelists' Bios

Toni Norrell

T^3 Regional Instructor

Corpus Christi, TX

Toni has over 25 years of teaching experience from 5th grade to College Algebra. She works as a Math Specialist and T^3 Regional Instructor, and she is a recipient of the Presidential Award for Excellence in Mathematics and Science Teaching (PAEMST). Currently, she and Michelle are developing and delivering Computer Science professional development in Texas.

Michelle Rinehart

T^3 Regional Instructor

Fort Davis, TX

Born and raised in rural Ontario, Canada, Michelle studied mathematics, physics, and education before moving to Texas. Michelle has taught high school math and science at rural districts in Texas, while also working as a math and science consultant throughout the state. Her interests include technology integration, conceptual understanding, and curriculum and instruction.

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Agenda

- Welcome & introductions
- Advanced Topics in Computer Science: Constructing Searching and Sorting Algorithms
  - Guess My Number Program
  - Guess Strategy #1 (Linear Search)
  - Guess Strategy #2 (Binary Search)
  - Bubble Sort Pseudocode
  - Bubble Sort Programming
  - Additional Sort Challenges
- Online Resources

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Expected Outcomes

At the end of this session, you will have:

- **Modeled** and **solved** computer science problems using linear and binary searches
- **Compared** and **contrasted** linear and binary searches
- **Constructed** searching and sorting algorithms
- **Reviewed** important topics for computer science certification examination

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