

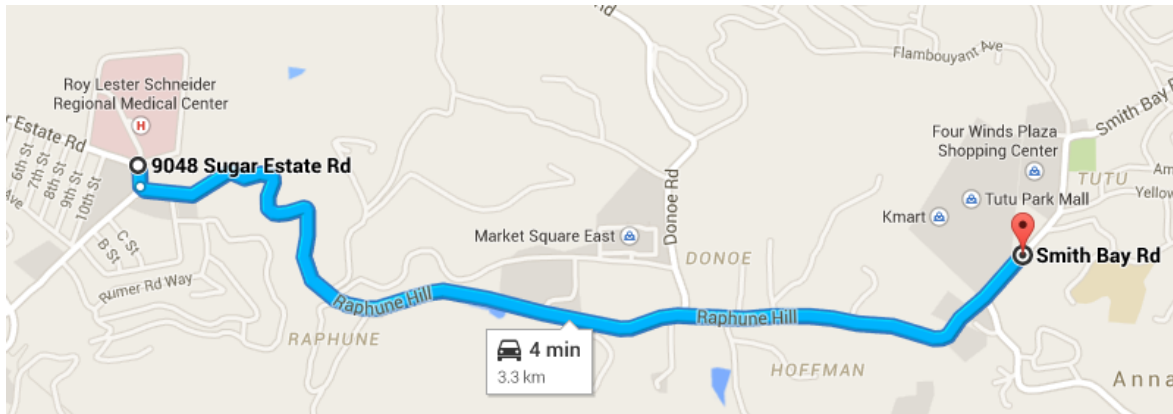
Algorithms and Programming for High Schoolers (crash course)

<http://www.usvicoder.com>

FREE COURSE

An *algorithm* is just a well-defined procedure for performing some task. This crash course will cover fast algorithms for several problems:

- Multiplying two numbers faster than how you learned in grade school!
- Calculating the fastest way to get between two places on a map.



- Solving a system of thousands of linear equations automatically.

$$x + 2y = 5, 3x - 2y + z = 7, y + z = 1$$

$$x, y, z = ?$$

- Sorting: $1\ 9\ 4\ 2\ 8\ 6 \implies 1\ 2\ 4\ 6\ 8\ 9$
- Storing and retrieving information in a database.
- ... and much more

WHERE? University of the Virgin Islands, St. Thomas

WHEN? January 8-16

The course will require a bit of mathematical thinking. Students strong in math are encouraged to e-mail us to register and get more information. To get our email address, solve this puzzle:

Puzzle: 700 people enter a room, and everybody shakes everybody else's hand exactly once. How many handshakes are there total?

If the answer to the above puzzle is X, then email algorithmsX@seas.harvard.edu.

Course will be taught by Jelani Nelson.