

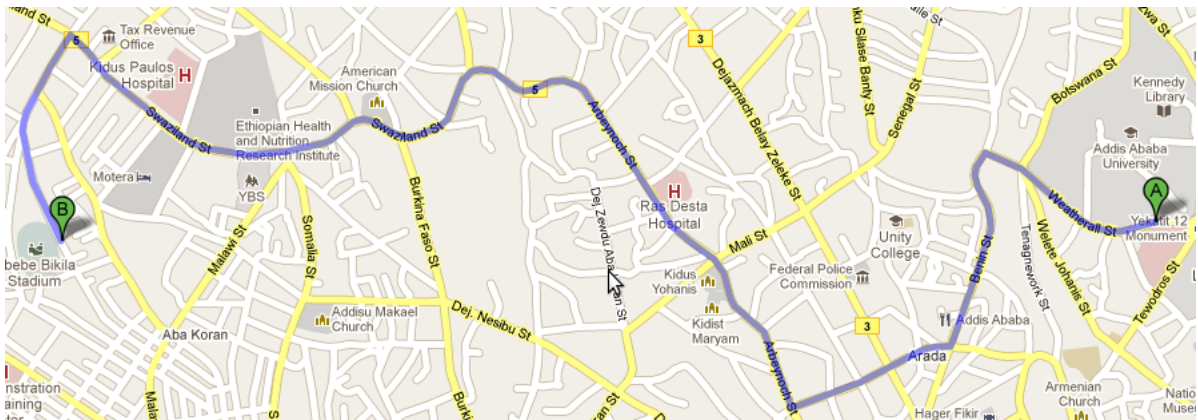
Algorithms and Programming for High Schoolers (summer course)

<http://www.addiscoder.com>

FREE COURSE

An *algorithm* is just a well-defined procedure for performing some task. This summer 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 in a big city.



- Solving a system of thousands of linear equations automatically.

$$\begin{aligned}x + 2y &= 5, & 3x - 2y + z &= 7, & y + z &= 1 \\x, y, z &= ?\end{aligned}$$

- 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? AAiT, Addis Ababa University (Amist Kilo) **WHEN?** July 4–29 (European calendar)

The course will be taught in English, and 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@mit.edu.

Course taught by Jelani Nelson. Jelani recently finished his PhD at MIT in computer science, and will do postdocs at MSRI, Princeton, and the IAS before joining the computer science faculty at Harvard.