

# CSE 230, SECTION 07

## DISCRETE MATHEMATICS

### Can You Solve The Famous Einstein's Riddle?

#### Story behind the riddle:

The following riddle is claimed to have been written by Einstein as a boy. It's also sometimes attributed to famous English writer and mathematician Lewis Carrol, although there's no evidence that either of them actually wrote it. Either way, it's fiendishly clever and is popularly called "Einstein's Riddle". It's rumored that only **2%** of the world can solve it.

#### The situation:

- There are 5 houses in five different colors.
- In each house lives a person with a different nationality.
- These five owners drink a certain type of beverage, smoke a certain brand of cigar and keep a certain pet.
- No owners have the same pet, smoke the same brand of cigar or drink the same beverage.

#### Can you find out who owns the fish?

#### Hints:

- The Brit lives in the red house
- The Swede keeps dogs as pets
- The Dane drinks tea
- The green house is on the left of the white house
- The green house's owner drinks coffee
- The person who smokes Pall Mall rears birds
- The owner of the yellow house smokes Dunhill
- The man living in the center house drinks milk
- The Norwegian lives in the first house
- The man who smokes blends lives next to the one who keeps cats
- The man who keeps horses lives next to the man who smokes Dunhill
- The owner who smokes BlueMaster drinks beer
- The German smokes Prince
- The Norwegian lives next to the blue house
- The man who smokes blend has a neighbor who drinks water

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