**Algorithm Operation Procedure**

1. User Input
   1. User should be prompted to input five values:
      1. How many seconds between births?
      2. How many seconds between deaths?
      3. How many seconds between immigrations?
      4. What is the current population?
      5. How many years in the future?
2. Population Change Calculation
   1. Code should run a population change calculation to find the future population
      1. Calculation: {(secs\_year/time\_between\_births) + (secs\_year/time\_between\_migrate)-(secs\_year/time\_between\_deaths) \* (num\_years)}
      2. Assign calculation to value pop\_change.
3. Future Population Calculation
   1. Code should run a future population change calculation
      1. Calculation: (Current\_pop + pop\_change.)
      2. Assign calculation to the value future\_pop
4. Output
   1. Code should output a “Increased” value if future\_pop > current\_pop
   2. Code should output a “Decreased” value if future\_pop < current\_pop
      1. Otherwise, code should output a “Same” value.