Sample Assessment

1. What does it mean if an algorithm is **embarrassingly parallel**?
2. Assume you have a vector with one million numbers. Assume you also have a CPU with 4 processing cores. How could you use all 4 cores to sum up all the values in the vector utilizing a parallel approach to speed up the computation?
3. For each of the following options, would a **serial** or **parallel** program be better suited for the task, and *why*?
    a. Simulating galaxy formations
    b. Simulating the spread of disease
    c. Predicting the path of a hurricane
    d. Computing the tip for a meal at a restaurant
    e. Simulating planetary movements
    f. Converting temperature from celsius to fahrenheit