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1. (5 points) True or False? Why?

a. Parallel Reduce program has a work complexity = $O(n \log n)$.

b. Reduce pattern requires an Identity element.

c. The factorial operation is a reduction operator.

d. One is an Identity element for the multiplication operator.

e. Hillis & Steele Reduce algorithm is the best solution if we have a massive input size.

2. (5 points) Describe the APOD optimization system, and shortly explain its steps.

