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Question 1

Not yet answered

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What is the purpose of the Barnes-Hut algorithm?

Select one:

- a. None of the other answers.
- b. To convert three-dimensional space into two dimensional space.
- c. To reduce the time complexity of the N-body problem.
- d. To cluster distance bodies
- e. To convert barns to huts.
- f. To increase the time complexity of the N-body problem.

Question 2

Not yet answered

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In the gravitational N-body problem, suppose there are just two stationary bodies. How do the bodies move?

Select one:

- a. The bodies move directly away from each other.
- b. The bodies move on indeterminate paths
- c. The bodies do not move.
- d. None of the other answers.
- e. The bodies move directly towards each other.
- f. The bodies move in circles.

Question 3

Not yet answered

Marked out of 1

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Name one method that can improve the convergence speed of the stencil pattern to solve a problem such as the heat distribution problem by iteration.

Select one:

- a. Jacobi iteration
- b. Making the iterations fully synchronous
- c. Gauss-Seidel Relaxation method
- d. None of the other answers
- e. Making the iterations partially synchronous

Question 4

Not yet answered

Marked out of 1

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In the Seeds pattern programming framework, what is the Module class?

Select one:

- a. None of the other answers
- b. It deploys the framework and starts the computation.
- c. It is the class that contains just the methods of the master process
- d. It is the class that contains all the methods of the computation
- e. It is the class that starts your computer
- f. It is the class that contains just the methods of the slave processes

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