|  |
| --- |
| This recurrence formula applies to this and the following question: T(N) = 3T(N/7) + cN2  .  Give the last level, k, as a function of N. |
| |  |  | | --- | --- | | Selected Answer: | Incorrect 3/49 | | Correct Answer: |  |  |  |  |  | | --- | --- | --- | | **Evaluation Method** | **Correct Answer** | **Case Sensitivity** | | Correct*Exact Match* | log\_7(N) |  | | Correct*Exact Match* | k=log\_7(N) |  | | Correct*Exact Match* | k = log\_7(N) |  | | Correct*Exact Match* | k= log\_7(N) |  | | Correct*Exact Match* | k =log\_7(N) |  | | Correct*Exact Match* | log\_7N |  | | Correct*Exact Match* | log\_7(n) |  |  |  | | --- | |  | |

* **Question 2**

10 out of 10 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Correct | The cost of one node at level i is: |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | Correctc.  cN2/72i | | Correct Answer: | Correctc.  cN2/72i | |  |  |  |

* **Question 3**

0 out of 10 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Incorrect | This recurrence formula applies to this and the following question:   T(N) = 2T(2N/3) + cN2  .  Give the problem size at level i as a function of N. |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | Incorrect N/(3/2)^2i | | Correct Answer: |  |  |  |  |  | | --- | --- | --- | | **Evaluation Method** | **Correct Answer** | **Case Sensitivity** | | Correct*Exact Match* | N(2/3)^i |  | | Correct*Exact Match* | ((2/3)^i)N |  | | Correct*Exact Match* | N(2/3)^{i} |  | | Correct*Exact Match* | N/(3/2)^i |  | | Correct*Exact Match* | N\*(2/3)^i |  | | Correct*Exact Match* | N\*2^i/3^i |  | | Correct*Exact Match* | (2/3)^i\*N |  | | Correct*Exact Match* | ((2/3)^i)N |  | | Correct*Exact Match* | N/((3/2)^i) |  | | Correct*Exact Match* | n/((3/2)^i) |  |  |  | | --- | |  | |  |  |  |

* **Question 4**

0 out of 10 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Incorrect | Give the last level, k, as a function of N. |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | Incorrect 8/9 | | Correct Answer: |  |  |  |  |  | | --- | --- | --- | | **Evaluation Method** | **Correct Answer** | **Case Sensitivity** | | Correct*Exact Match* | log\_{3/2}(N) |  | | Correct*Exact Match* | log\_{3/2}N |  | | Correct*Exact Match* | -log\_{2/3}(N) |  | | Correct*Exact Match* | log\_{2/3}(1/N) |  | | Correct*Exact Match* | log\_{1.5}(N) |  | | Correct*Exact Match* | log\_{1.5}N |  |  |  | | --- | |  | |  |  |  |

* **Question 5**

0 out of 10 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| Incorrect | NlgN = O(N1+0.1) |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | Incorrect False | | Correct Answer: | Correct True | |  |  |  |