判断题
5
单选题
5
多选题
3
编程题
1
每个选项独立判分
3-1
分数 4
作者 Yuchen Mao
单位 浙江大学
Let TTT be an AVL tree with 19 nodes. What are the possible height of TTT ? (We assume that the height of a single node is 1.)
A.
4
B.
5
C.
6
D.
7
答案正确: 4 分

分数 4
3-3
部分正确: 4 分
None of the above works.
□ D.
Schedule the jobs in increasing order of the product dj·pjd_j\cdot p_jdj·pj.
□ C.
Schedule the jobs in increasing order of processing time pjp_jpj.
□ B.
Schedule the jobs in increasing order of deadline djd_jdj.
□ A.
(This problem is from Algorithms Illuminated by Tim Roughgarden.)
You are given nnn jobs, each with a processing time pjp_jpj and a deadline djd_jdj. Given a schedule $\sigma \simeq \sigma$ of the jobs, we define the lateness of job jjj as $\lambda j(\sigma) = \max(Cj(\sigma) - dj,0) = \min(Cj(\sigma) - dj,0) = \max(Cj(\sigma) - dj,0)$, where $Cj(\sigma)C_j(\sigma)C_j(\sigma)$ is the completion time of job jjj in $\sigma \simeq \sigma$. You task is to find a scheduling $\sigma \simeq \sigma$ that minimizes the total lateness $\Sigma j\lambda j(\sigma)\simeq m_j(\sigma) = m_j(\sigma)$. Which of the following greedy algorithm produces an optimal schedule?
单位 浙江大学

分数 8

作者 Yuchen Mao

单位 浙江大学

We have introduced the knapsack problem in class. Which of the following

statements are correct?
□ A.
The knapsack problem can be solve in $(nC)(nC)(nC)$ time where nnn is the number of items and CCC is the capacity of the knapsack.
□ B.
The knapsack problem can be solve in $(nV)(nV)(nV)$ time where nnn is the number of items and VVV is the total value of items.
□ C.
The knapsack problem can be solved by greedily selecting items according to their values.
□ D.
The knapsack problem can be solved by greedily selecting items according to their efficiencies (the ratio of value to weight viwi\frac $\{v_i\}\{w_i\}$ wivi).
部分正确: 3 分
上一题
□单题作答
下一题
退出答题
判断题
5/5
共 10 分
1
2
3
4 5
J

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单选题
5/5
共 14 分
1
2
3
4
5
多选题
3/3
共 16 分
1
2
3
编程题
0/1
共 10 分
1
                          共 50 分
未作答
待评测
答案正确
答案错误
ADS23MID
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