判断题
5
单选题
5
多选题
3
编程题
1
2-1
分数 3 作者 Yuchen Mao
单位 浙江大学
Delete the minimum number from the binomial queue given in the following figure
Which one of the following statements must be <b>FALSE</b> ?
0
A.
there are two binomial trees after deletion, which are B2B_2B2 and B3B_3B3
0
B.
23 and 14 are both the roots of some binomial trees
O
C.
21 is the child of 13
O
D.
23 and 24 are siblings
答案正确: 3 分

分数 2

作者 Yuchen Mao

单位 浙江大学

Gvien the following table, what are the precision and the recall?

## **Relevant Irrelevant**

Retrieved 21000 7000

Not Retrieved 3000 1000

0

Α.

precision = 75% and recall = 87.5%

0

В.

precision = 87.5% and recall = 75%

0

C.

precision = 25% and recall = 12.5%

0

D.

precision = 12.5% and recall = 25%

答案正确: 2分

2-3

分数 3

作者 Yuchen Mao

单位 浙江大学

Consider the following game tree. If node ddd is pruned by  $\alpha = \beta$  pruning algorithm, which of the following statements about the value of node aaa or node bbb must be correct?

O A.
both are less than or equal to 68
O B.
both are greater than or equal to 68
O C.
both are less than or equal to 65
O D.
both are greater than or equal to 65
答案正确:3分
答案正确: 3 分
2-4 分数 3 作者 Yuchen Mao
2-4 分数 3 作者 Yuchen Mao 单位 浙江大学 Let Σ\SigmaΣ be an alphabet with nnn symbols. What is the maximum number of
$2\text{-}4$ 分数 3 作者 Yuchen Mao 单位 浙江大学 Let $\Sigma \simeq \Delta$ be an alphabet with nnn symbols. What is the maximum number of bits that Huffman's algorithm might use to encode a single symbol in $\Sigma \simeq \Delta$ ?
2-4 分数 3 作者 Yuchen Mao 单位 浙江大学 Let Σ\SigmaΣ be an alphabet with nnn symbols. What is the maximum number of bits that Huffman's algorithm might use to encode a single symbol in Σ\SigmaΣ?  (This problem is from <i>Algorithms Illuminated</i> by Tim Roughgardon)

In(n)\\In(n)In(n)
○ C.
n-1n-1n-1
O D.
nnn
答案正确: 3 分
2-5
分数 3 作者 Yuchen Mao 单位 浙江大学
Consider the recurrence $T(n)=T(n/2)+2T(n/4)+nT(n)=T(n/2)+2T(n/4)+nT(n)=T(n/2)+2T(n/4)+n$ and $T(1)=1T(1)=1$ . Which of below is the tight upper bound for $T(n)T(n)T(n)$ ? (You may assume that nnn is a power of 2.)
O A.
O(n)O(n)O(n)
○ B.
O(nlogn)O(n \log n)O(nlogn)
O C.
O(nlognloglogn)O(n \log n \log n)O(nlognloglogn)
O D.
O(n2)O(n^2)O(n2)

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 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	
题目列表	
提交列表	
排名	
×	
拖拽到此处	
图片将完成下载	
由 AIX 智能下载器(图片/视频/音乐/文档)提供	
检测到新版本,请	
	重新加载
页面	
	不再提醒