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為教教学作业

$$27. (1) \quad B_{S}' = \begin{bmatrix} -1 & 1 & 0 & 0 & 0 & 0 & 1 & 0 \\ 1 & 0 & 1 & 0 & 0 & 1 & 0 & 0 \\ 0 & -1 & 0 & 0 & -1 & 0 & 0 & -1 \\ 0 & 0 & 0 & -1 & 1 & -1 & 0 & 0 \end{bmatrix} = (B_{11} B_{12})$$

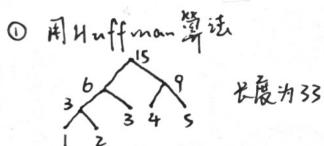
$$B_{11} = \begin{bmatrix} -1 & 1 & 0 & 0 \\ 1 & 0 & 1 & 0 \\ 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & -1 \end{bmatrix} \quad B_{12} = \begin{bmatrix} 0 & 0 & 1 & 0 & 1 \\ 0 & 1 & 0 & 0 \\ -1 & 0 & 0 & -1 \\ 1 & -1 & 0 & 0 \end{bmatrix} \quad B_{12} = \begin{bmatrix} 0 & 1 & 0 & 1 \\ 0 & 1 & 0 & 0 \\ 1 & 0 & 0 & 0 \\ 0 & -1 & -1 & -1 \end{bmatrix}$$

$$G_{12} = -B_{11}B_{12}^{T} = \begin{bmatrix} -1 & -1 & 1 & 1 \\ 0 & 0 & -1 & -1 \\ -1 & -1 & 0 & 1 \end{bmatrix}$$

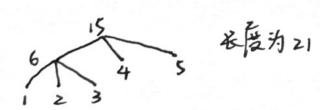
$$B_{5}' = \begin{bmatrix} -1 & 0 & 0 & 0 & 1 & 0 & 1 & 0 \\ 1 & 0 & 1 & 0 & 0 & 1 & 0 & 0 \\ 0 & -1 & 0 & -1 & -1 & 0 & 0 & 0 \\ 0 & 1 & -1 & 0 & 0 & 0 & 0 & -1 \end{bmatrix} = (B_{11} \ B_{12})$$

$$B_{11} = \begin{bmatrix} -1 & 0 & 0 & 0 \\ 1 & 0 & 1 & 0 \\ 0 & -1 & 0 & -1 \\ 0 & 1 & -1 & 0 \end{bmatrix} \quad B_{12} = \begin{bmatrix} 1 & 0 & 1 & 0 \\ 0 & 1 & 0 & 0 \\ -1 & 0 & 0 & 0 \\ 0 & 0 & 0 & -1 \end{bmatrix} \quad B_{12}^{-1} = \begin{bmatrix} 0 & 0 & -1 & 0 \\ 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & -1 \end{bmatrix}$$

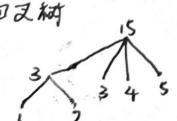
34. 出现了5种字母. a.b.c.d.e分别和堕为1,2,3.4,5



② 三叉树.



③ 四叉树



极为自

不学一又树是因为一又树就是链表.查找效率低. 不学三又树是因为较复杂.无类似Huffman. 算法的构造能达到最优三又树

39. 我们用Prin算选证解

先选V.构成集合V. 以到V最轻.添加V2、

4到 V最轻,添加V6.

Vs到V最轻,添加Vs.

类似地,再体证添加 4. 28. 14. 24. 最短树 T=5(V1, V2),(V2, V6),(V2, V6),(V3, V4),(V3, V4),(V3, V4),(V3, V4),(V3, V4),(V3, V4),(V4, V6),(V4, V