1. Grady Huffman
• Create 2 tree of frequencies, characters
• (201 = 0, night = 1
• goze: min # bits when tree is used for compression
largening anotions
• 15 2 lavest freq In aptimal choice? (us)
• How do Rive actually implement?, (you)
> choose 2 lavest freqs
$$\rightarrow x, y$$
 define
go on the bottom?
• 2 other chas, 2 ma b, are on the bottom
• $[c = 2, freq + b, freq]$
 \Rightarrow total # bits
rest of tree + $l \cdot 2 + (l+1) \cdot c$
What if x, y are swapped with 2, b?
Hotze # of bits
Nest of tree + $l \cdot c + (l+1) = 2$
 $Tict + let + z$

2. Data Structures



L> LE you have the rost, you have the unde tree



- · no dupis
- · orner doesn't roratter
- · operations: Union, intersection, complement





given 2 déscription of a DtC algo, give pseudocode