c) A full 3-ary tree with 100 vertices will home:

=) 
$$\hat{U} = \frac{n-1}{M}$$
 =  $\hat{U} = \frac{1-n}{M} = \hat{U}$  (=

The desired binary scarch tree is:

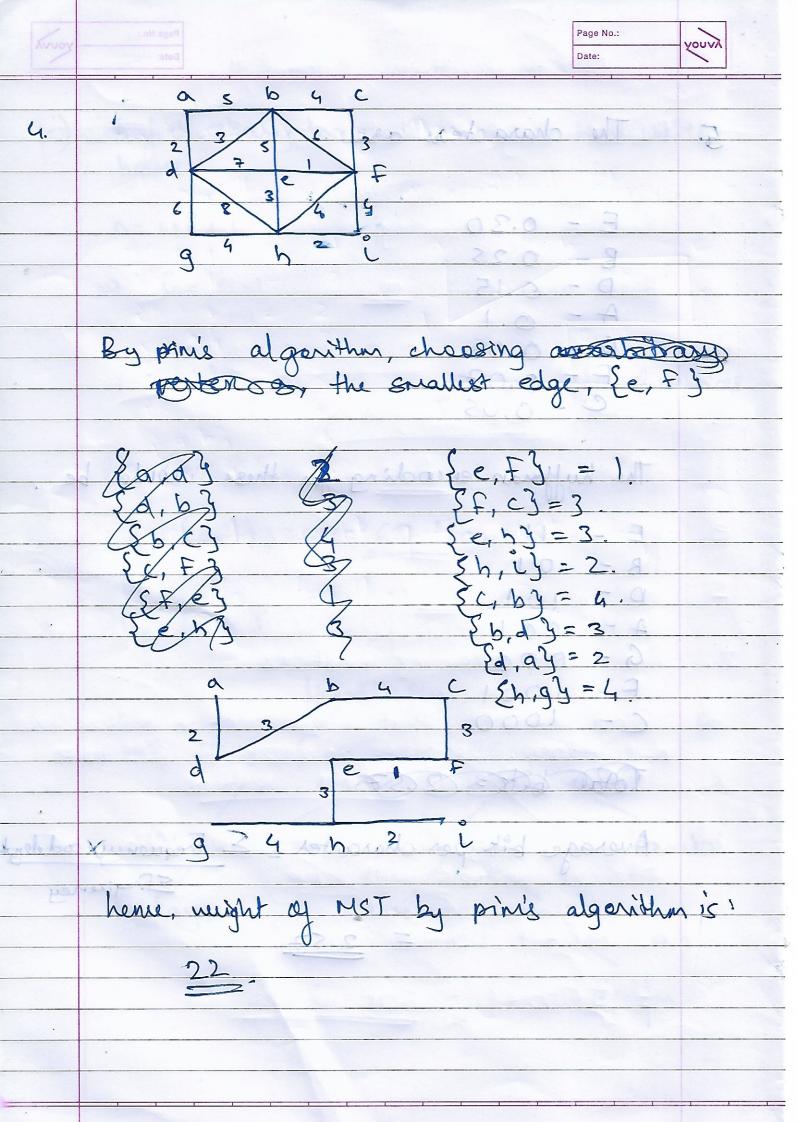
Linhedth Plus.

This was Signeasy

Friday. Newshunt Raytm

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3 2 0 5	D	
The characters are.	1	Na Noo
	13	
4 1 3 2 7	<u> </u>	,
E - 0.30	9	
R - 0.25	0	
		-
D - 0.15 A - 0.1		1
	- 0	
	Ra prin	4
C-0.05	(%)	-
0.05		-
-H / 1 . (7 ) 1		
The huffman encoding for these	menta!	se.
5 UV 13 12 1	d, b.?	
E -8 -8 -8 -8 -8 -8 -8 -8 -8 -8 -8 -8 -8	3030	-
B - 01	7 /23	<u></u>
D.3 101	43	
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F 1001		<u> </u>
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LI Etais, lie Esta la sentida	And And	(Gr
1000 bits 3 2 500		
Average bits per character = E F	~~~~~	and do b
The part of the pa	- County	wording!
Winople ships up Tem in taken	Streque	ney
	- RAMUN	-
- 2.57	<u> </u>	

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By krushall's algorithm,

selecting the minimum neighted edge,

$$\begin{cases} e, f & = 1 \\ \{a, d \} & = 2 \\ \{b, i \} & = 2 \\ \{e, h \} & = 3 \end{cases}$$

$$\begin{cases} \{a, b \} \} = 3 \\ \{a, b \} \} = 3 \\ \{a, b \} = 3 \\ \{a, b \} = 3 \end{cases}$$

$$\begin{cases} \{a, b \} \} = 3 \\ \{a, b \} = 3 \\ \{a, b \} = 3 \end{cases}$$

£ b, c3

 $\frac{a}{2} \frac{b}{3} \frac{c}{3}$   $\frac{a}{2} \frac{b}{3} \frac{c}{3}$   $\frac{a}{3} \frac{e}{1} \frac{f}{3}$   $\frac{a}{3} \frac{e}{1} \frac{f}{3}$   $\frac{a}{3} \frac{e}{1} \frac{f}{3}$ 

hence, the weight of the Met by brustall's algorithm is 22