Michael Bohn CS 570: HW1

Check $|10010| = 2^6 \pm 1 + 2^5 \pm 1 + 0 \pm 2^4 + 0 \pm 2^3 + 12^2 + 12^2 + 12^2 + 0 \pm 2^6 = 102$ $|010111| = 2^6 \pm 1 + 2^5 \pm 0 + 1 \pm 2^4 + 0 \pm 2^3 + 1 \pm 2^2 + 1 \pm 2^4 + 1 \pm 2^6 +$

sheeh pusses!!

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2 A test document is 15 pages long. Each page contains approximately 200 words with an averge word length of 5 characters. Assume one blank space between words and no punctuation, How many bytes will it take to store this document in memory or on elect using ASCIT?

ASCII = 1 byte per character

Let total characters and multiply by exte per character

total characters

15 pages (200 words) (5 chars) = 15,000 chars page word) = 15,000 chars 200 words/page means 199spaces/page

15 opages (199 spaces) = 2985 spaces

Spaces are ASCII characters, so 2985 spaces = 2985 charg

total characters = 15,000 + 2985 = 17,985

17, 985 chars [1 lyte] = 17, 985 bytes

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```
3 Create the truth table for:
   (PA-Q) V (PVQ) A, = PA-Q A2 = PVQ
                       truth table A1 truth table
                       P-Q P1-Q
            Final truth table
 (reute truth table for the formula:
                               A_1 = P \vee P \wedge A_2 = R \wedge Q \wedge A_3 (P \wedge P \wedge P \wedge A_4 = A_2 \vee A_3
                7 7 Q 7 R
        T
     T
                         F T T Y T F 4 F
F F F F T 5 7
     F
     \top
```

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4 continued

			A_z		A3			
A 71	o ra	7PV7Q	R	Q RA	la P	412	PAT	R
1	T	T	ř	r f	F	T	F	
F	Τ	T	F	ŕ F	7	和	T	
T	<i>[</i> -	T	Ē	T F	F	ī	f.	
T	T	T	\mathcal{T}	F	F	F	F	
F	F	F	F	ī F	T	86	T	
F	ī	7	TF	F	· T	F	F	
T	F	T	TT	T	F	1	F	
F	F	F	7 7	T	T	F	F	