L27Q1	Stereo audio is	s sampled at 44	.1 kHz and qu	antized to 1	6 bits/channel	and	DCR=11		
	then compressed to 128 kbps mp3 playback format. What are the						Savings=91%		
	approximate D	OCR and the res	ulting savings	?					
L27Q2	A picture of a	188 kB)	Savings=98.6%						
	and a 31 kB sa	ì							
	compression.								
L27Q3	Why was the cartoon samurai picture highly compressible?								
	Very simple wi								
L27Q4	Can we expect	to achieve suc	h DCR with th	e photograp	h?				
	No, if we use lossless compression. Maybe, if we use lossy compression.								
	Depends on details of photo and how much fidelity you are willing to lose.								
L27Q5	What was the relative frequency (probability) of someone ordering the						18/50		
	menu's #1 san	dwich selection	n (we call this	<i>p</i> 1)?					
L27Q6	What is the fewest number of bits needed to encode each of 8 possible						3	bits	
	orders with a unique (and unambiguous) bit sequence of equal length								
	for each?								
L27Q7	What is the entropy of one order given the popularity statistics above?						2.195	bits	
L27Q8	Create a Huffman tree based on the order statistics given above.								
	0 1								
			\ \ \						
	1 / 0								
	1 \ 0 1 1 \ 0								
	1/0								
	4 2 3 5								
L27Q9	Complete the table above with Huffman codes from the tree above.								
	#1	#2	#3	#4	#5				
	#1	#2	#3	#4	#5				
	18		8	10	5				
	11	9	101	10 01	100				
	- 11	00	101	UI	100				
L27Q10	Which menu it	Which menu items does not appear in the sequence 1110001010100?							
L27Q11	What is the average bit length per sandwich order?						2.75	bits	
L27Q12	How does the	How does the average bit length compare to entropy?							