

1993 Paper 7 Question 11

Additional Topics

Describe, for a competent programmer, the decoding of a Lempel-Ziv data compression code. Assume that the input is a stream of positive integers.

[10 marks]

Construct a Huffman Code for a seven-letter alphabet, given the following approximate frequencies:

a	b	c	d	e	f	g	
192	58	105	71	315	131	0	[4 marks]

Give an error-correcting code and explain how it works, excluding the simple repetition code.

[3+3 marks]