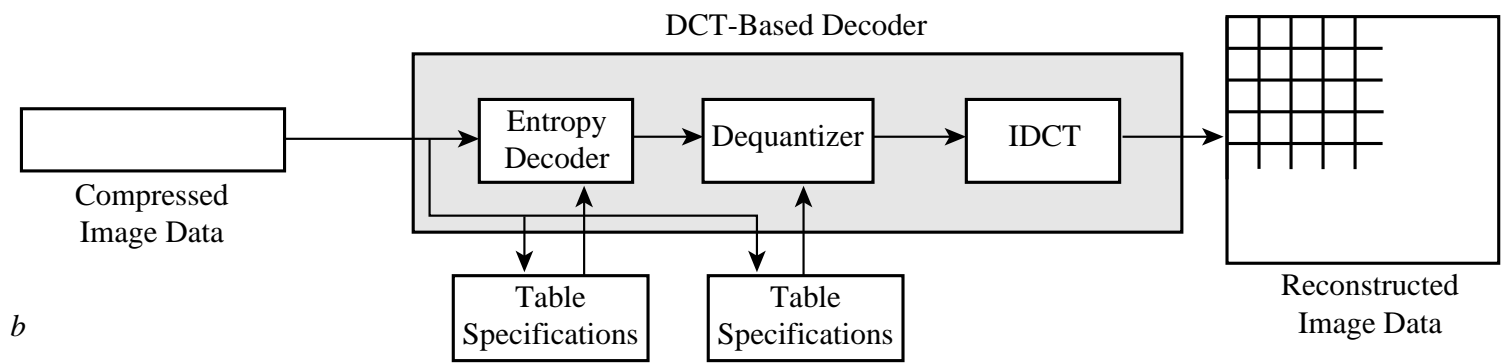
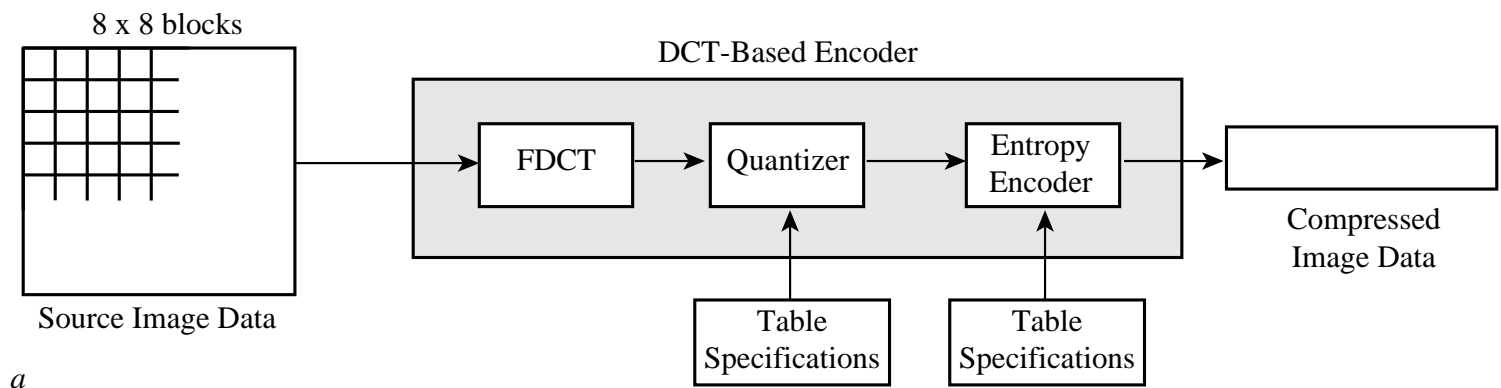
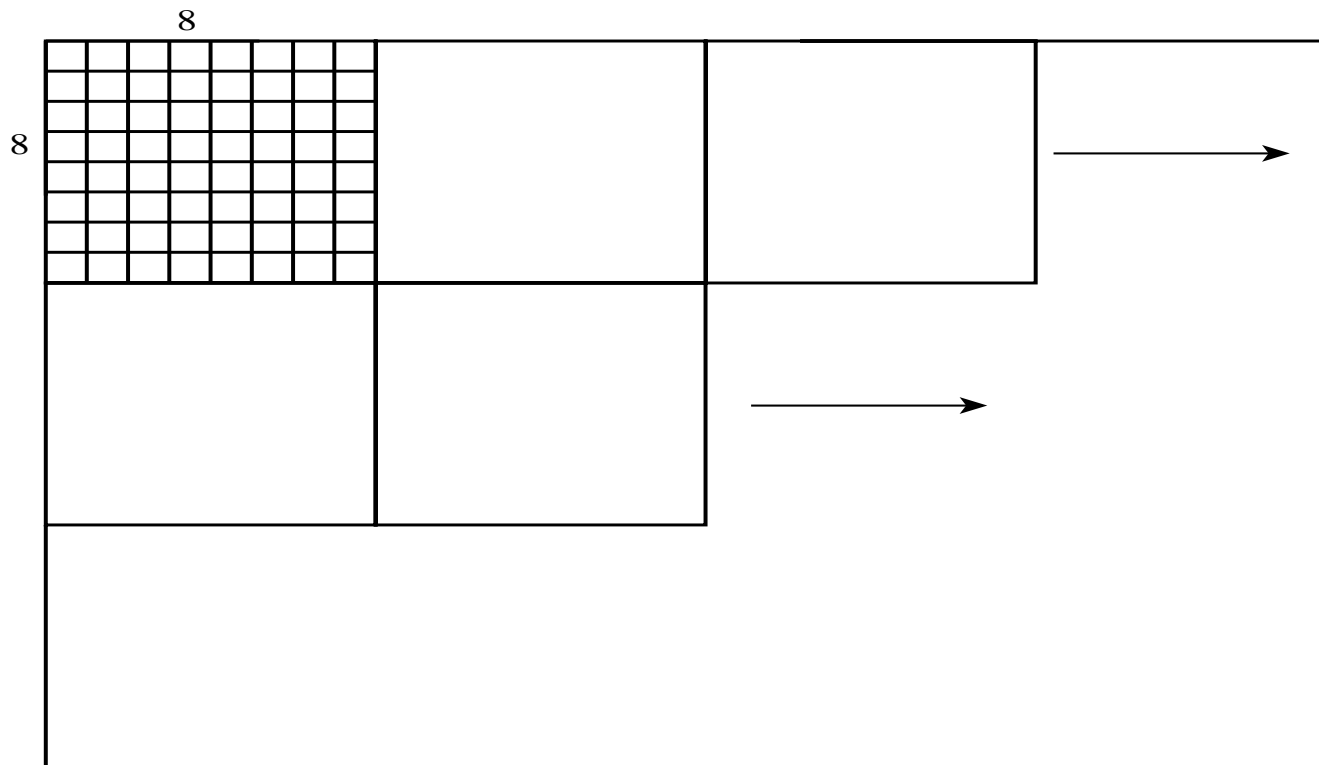


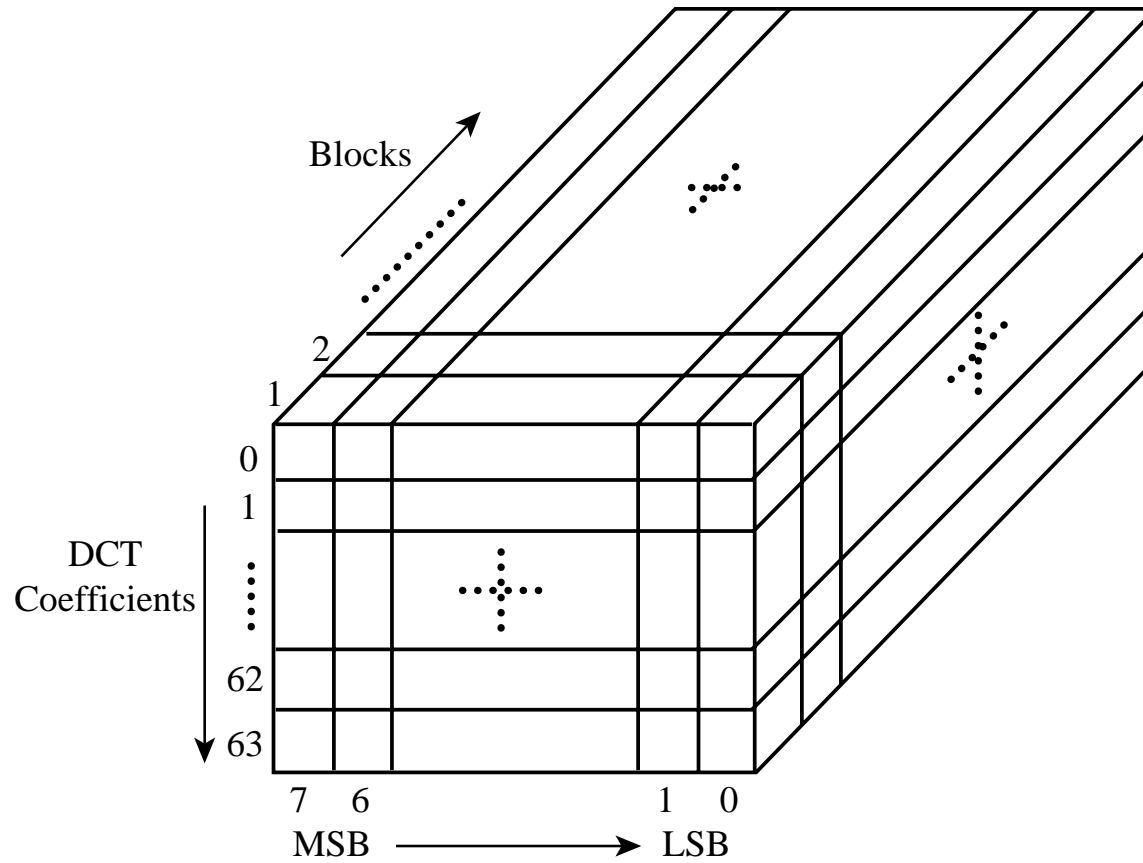
JPEG: (A) ENCODER; (B) DECODER



PARTITIONING OF AN IMAGE INTO 8×8 BLOCKS OF PIXELS



SEQUENTIAL LOSSY ENCODING



SUGGESTED STEP SIZES FOR CCIR-601

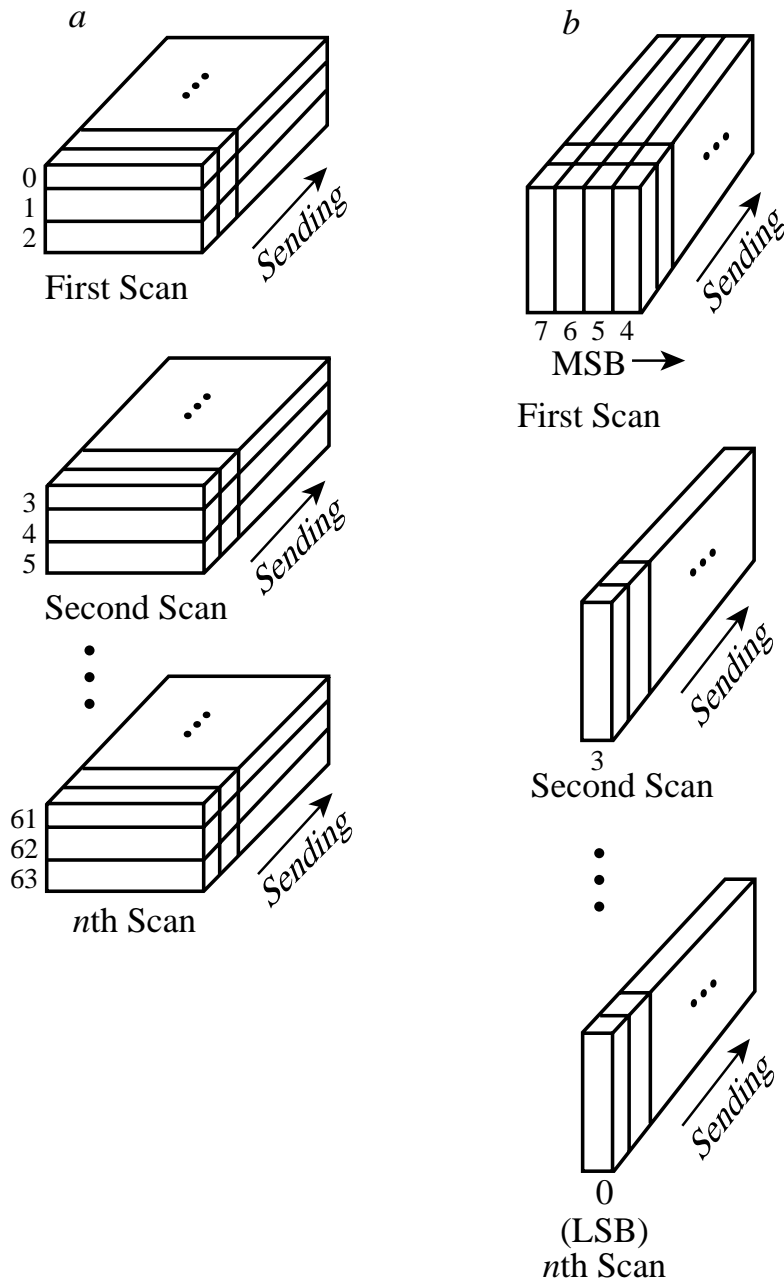
Luminance quantization table

16	11	10	16	24	40	51	61
12	12	14	19	26	58	60	55
14	13	16	24	40	57	69	56
14	17	22	29	51	87	80	62
18	22	37	56	68	109	103	77
24	35	55	64	81	104	113	92
49	64	78	87	103	121	120	101
72	92	95	98	112	100	103	99

Chrominance quantization table

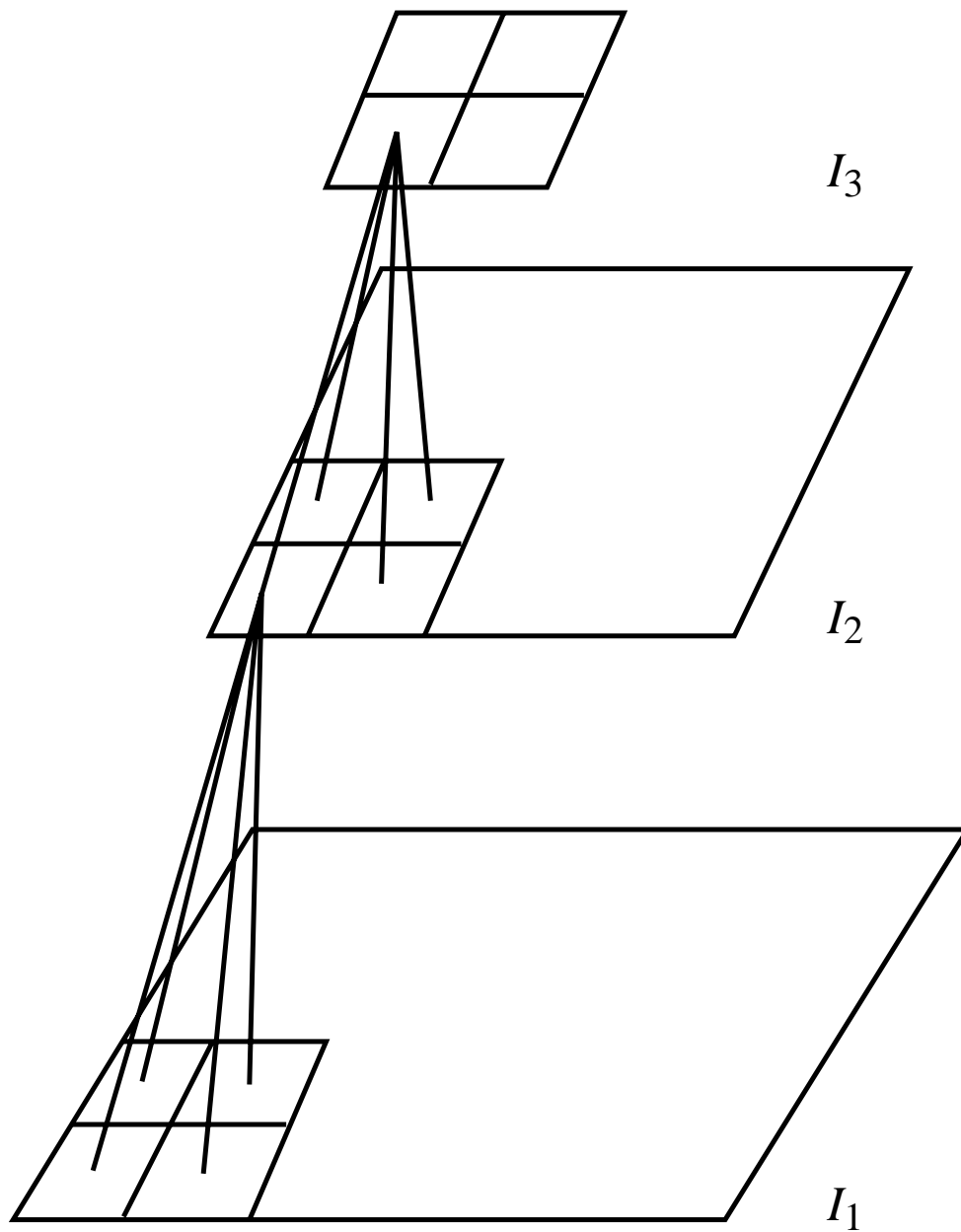
17	18	24	47	99	99	99	99
18	21	26	66	99	99	99	99
24	26	56	99	99	99	99	99
47	66	99	99	99	99	99	99
99	99	99	99	99	99	99	99
99	99	99	99	99	99	99	99
99	99	99	99	99	99	99	99
99	99	99	99	99	99	99	99

PROGRESSIVE ENCODING:

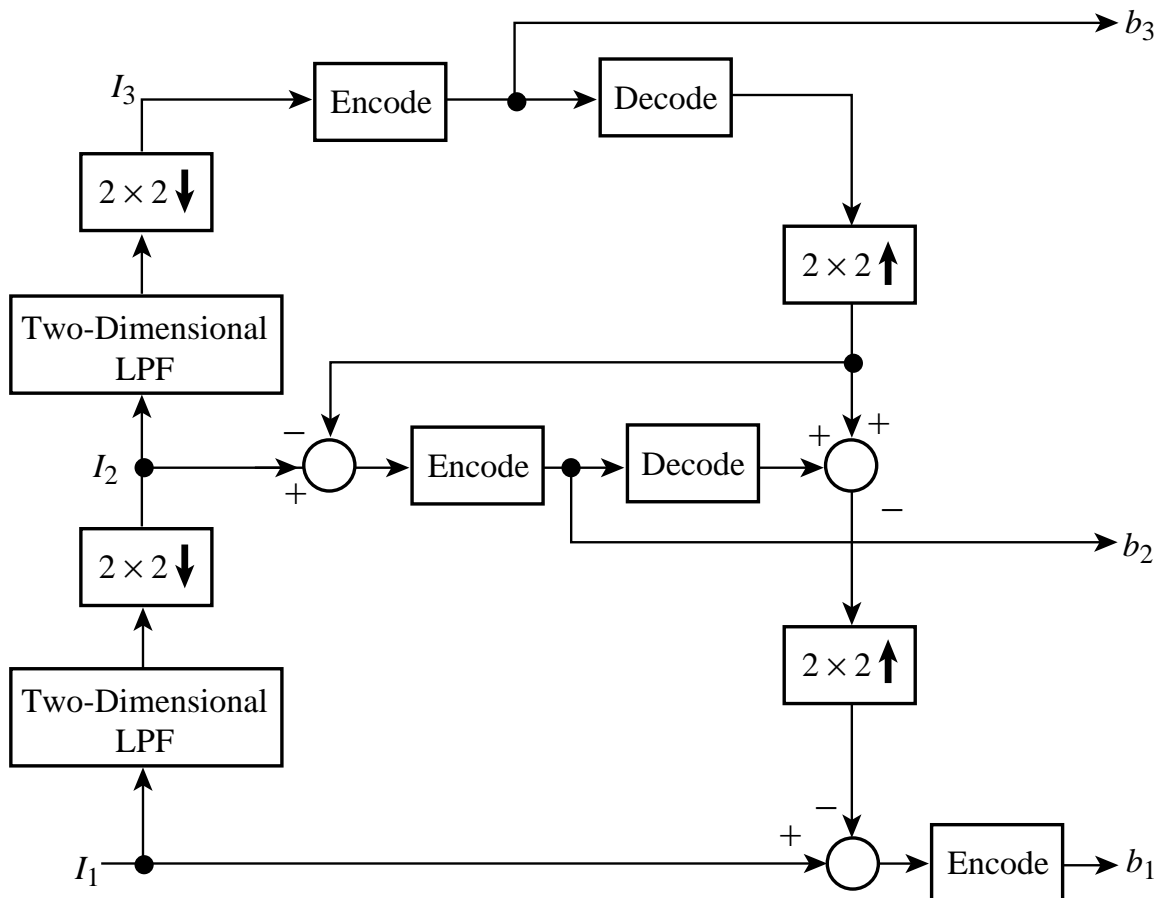


(a) Spectral Selection; (b) Successive Approximation

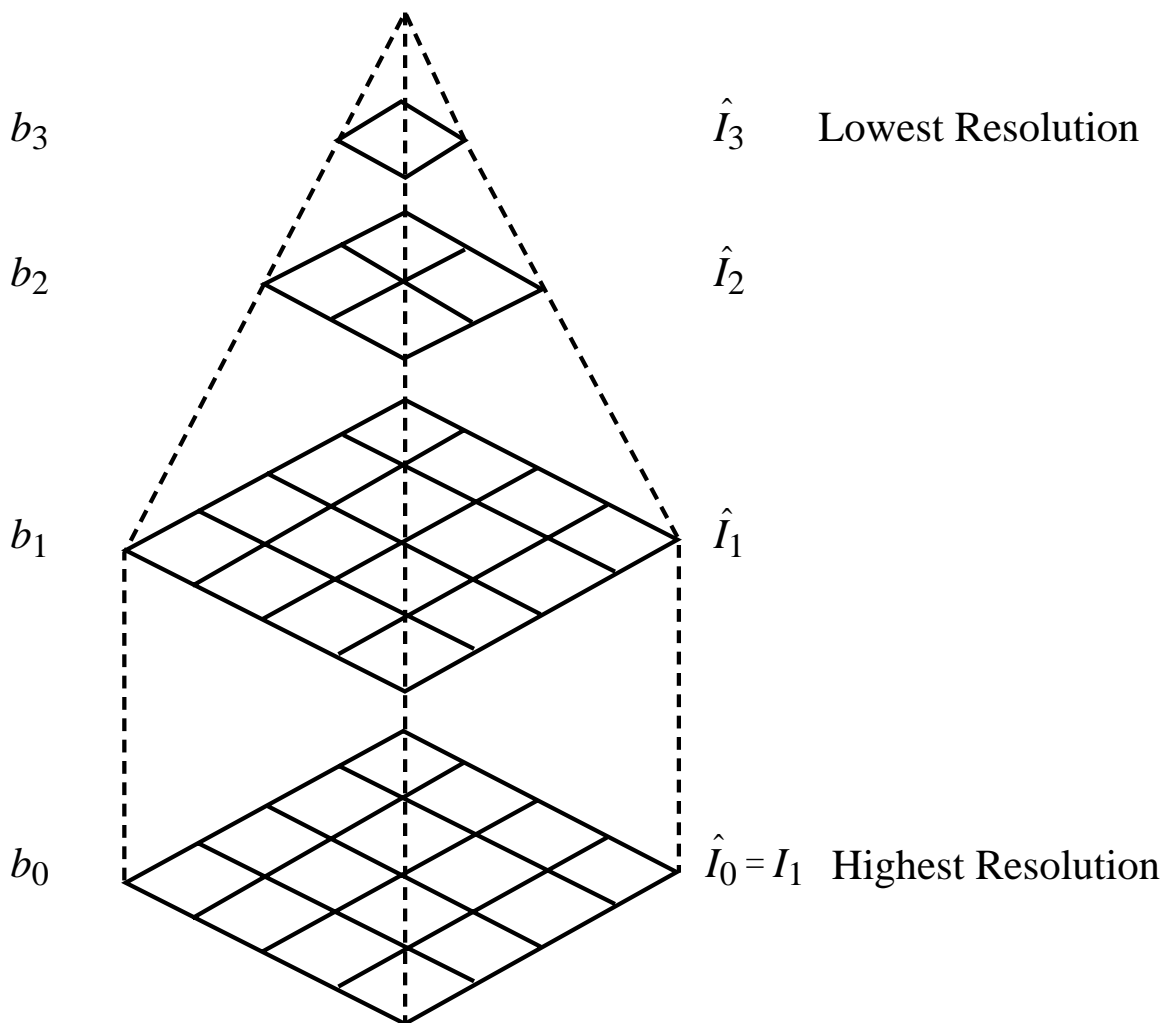
PYRAMIDAL FILTERING AND DECIMATION OF AN IMAGE



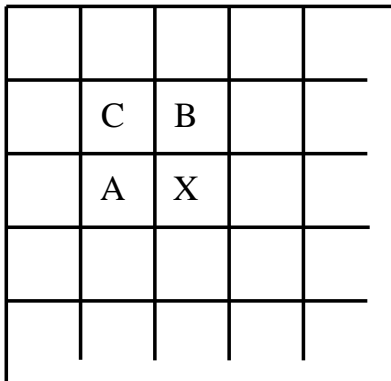
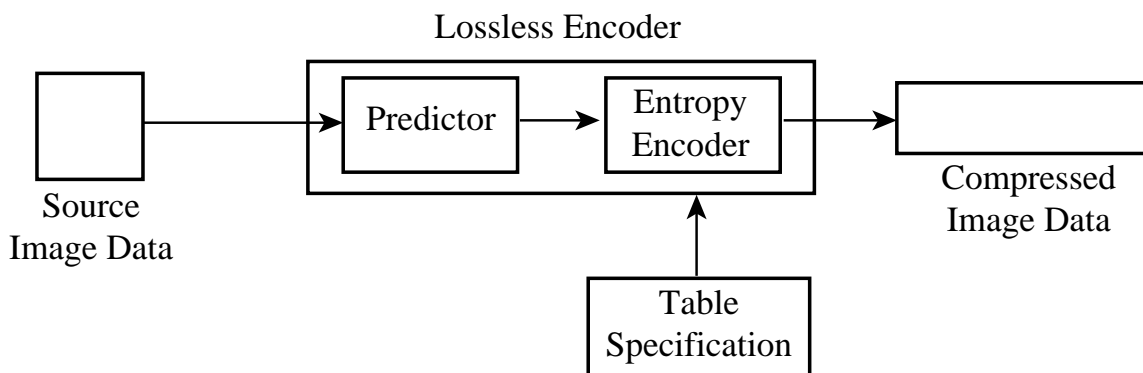
ENCODER FOR THREE-LEVEL PYRAMIDAL CODING



ENCODED LEVELS AND DECODED IMAGE PYRAMID



PREDICTIVE LOSSLESS JPEG ENCODING



Predictors for Lossless Coding	
Selection Value	Prediction
0	No Prediction
1	A
2	B
3	C
4	$A + B - C$
5	$A + ((B - C)/2)$
6	$B + ((A - C)/2)$
7	$(A + B)/2$