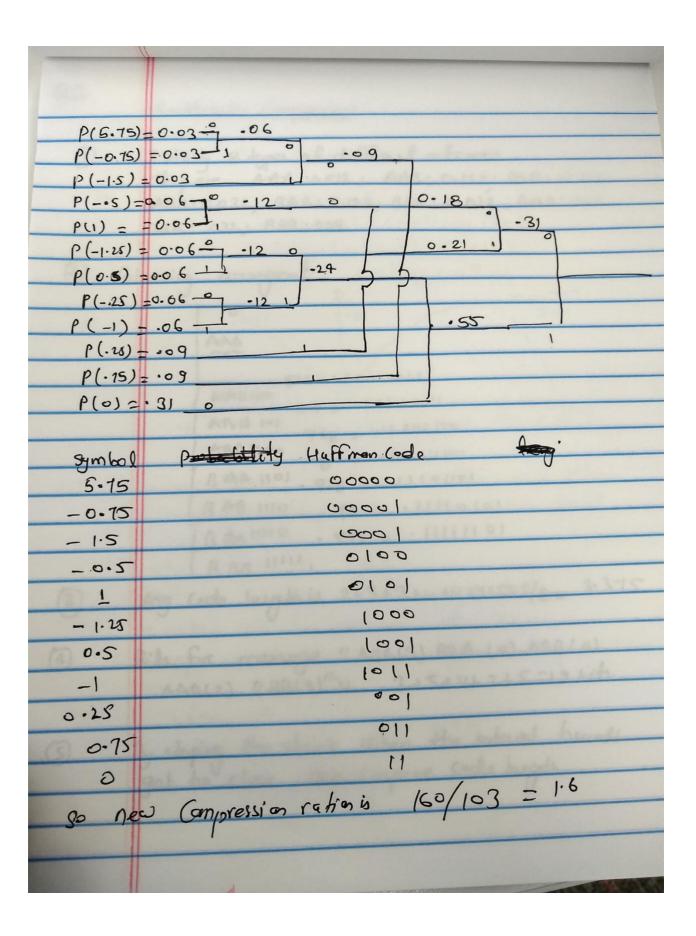


Q,2.	25 20 25 25 25
(i)	[22, 24, 24, 28, 28, 28, 26, 26, 26, 21,
P1-0.15	19, 20, 29, 22, 24, 24, 24, 25, 24, 20, 16, 10,10,
12 (-15)	8, 11, 6, 9, 9, 12, 15, 19]
P(s)	
(2)	160 bits because 25 = 32 so we need 5 bifs
	per signal and total 32x5 = 160 bits
100 a 100	12 -0 .
~	and a second sec
(3)	Differences: 5.75, -0.5, 0, 1, 0, 0, -0.75, 0.25, 0,0
	Differences: 5:15, -0:3, 5,1, 5, 7, 5, 7, 5, 7, 5, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7,
(1997)	-1.25, -0.5, 0.25, 0, 0.5, 0.5, 0, 0, -0.25, 0.25, -1, -1,
P(-15)	-1.5, 0, -0.5, 0.75, -1. 15, 0.76, 0, 3.75, 0.75, 1
P(a)	21 0
	max eliff = 1, min diff: -1.5
	And and the wife, I have been freely and a strong
Symbol	3.58 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
5-15	2 = 12, where uniformly distributed
- 0 - 15	levels beetress [-1.5,1] and 1 more level
- 1.5	For the first signal so we need 4 bits
0.5	persignal, and total 32 *4 = 128 bits
	per signal, and is
(A)	Compression ratio à .5/4
	1991
	Co la difference co coo have
(3)	Huttman coding for the williams,
0 - 2-3	Huffman coding for the differences, so we have following chart totally 103 bits for these signals
6-75	
	12
	1 1 1 2 4 1 5 4 1 6
Elica II	13 Compression ration is 160/103 = 10



0.3	Arithmetic Compression:
	Totally 8 types of different outcomes.
	They are AAA :05/2: AAB: 0.128. ABA: 0128
20	ABB: 0.032: BAA: 0.128: BAB; 0.032; BAB; 032
	BBA; 032; BBB: 008
(P) Fol	lowing arrangement:
4	
(1)	AAA
	000
	512= · 1000011
	ABA 101 .768 = .11 000100
	ABD 1100 8 = - 11001100
	BAA 110) . 928 = · [] [0] [0]
(SIL M	BAB 1110 . 96 = . 11110101
free	[BBA11110 . 992 = . [1] [1 0]
	BBA11110 . 992 = 1111
	BBB 11111, Avg Code length is 2+3+3+4+4+4+5\$5/8= 3-375
(3)	Avg code length is 2+3+3+4+4+4+5+3/8=
	3 100/10
(A)	Rile for message "ABA(3) BBA (5) KBIS(4)
4	Bils for message "ABA(3) BBA (5) MBB(4) AAA(2) BBB(5)"4 3+5+4+2+5=19 bits.
	AAH(Z) BISDS ,
	11 1 12 12han the interval bounds
(3)	By stoping the short when a code length
	By stoping the shrink when the interval bounds get too close can impure code largeth.

