

Symbol	A	B	C	D	E	F
Frequency	5	9	12	13	16	45
Code	1100	1101	100	101	111	0

$$\bar{L} = \frac{14 \cdot 4 + 41 \cdot 3 + 45 \cdot 1}{100} \approx 2.24$$

Fixed length, 6 symbols $L = \lceil \log_2(6) \rceil = 3$

$$Entropy : H = - \sum_i p_i \log_2(p_i) \approx 2.22$$

