

11.3 a) $D = 13 \cdot 11 \cdot 9 \cdot 7 \cdot 5 \cdot 4 = 180180$ or $\log_2(180180) = 17.46$ bits.

b) $D = m_1 \cdot m_2 \cdot \dots \cdot m_7 = 8\,485\,840\,800$ which is greater than 2^{32} .