

# Compiti 1

domenica 16 ottobre 2022 15:18

$$\begin{array}{cccccccc} 8 & 7 & 6 & 5 & 4 & 3 & 2 & 1 & 0 \\ 1 & 0 & 1 & 1 & 1 & 0 & 1 & 0 & 1 \end{array} = 2^0 + 2^2 + 2^4 + 2^5 + 2^6 + 2^8 = 1 + 4 + 16 + 32 + 64 + 256 = 373$$

$$129_{(10)} = 10000001$$

$$129 : 2 = 64 \quad 1$$

$$64 : 2 = 32 \quad 0$$

$$32 : 2 = 16 \quad 0$$

$$16 : 2 = 8 \quad 0$$

$$8 : 2 = 4 \quad 0$$

$$4 : 2 = 2 \quad 0$$

$$2 : 2 = 1 \quad 0$$

$$1 : 2 = 0 \quad 1$$

$$A1B = 11 \cdot 16^0 + 1 \cdot 16^1 + 10 \cdot 16^2 = 11 + 16 + 2560 = 2587$$

$$560_{(10)} = 230$$

$$560 : 16 = 35 \quad 0$$

$$35 : 16 = 2 \quad 3$$

$$2 : 16 = 0 \quad 2$$

$$101110_2 \div 1110 = 111100, 100000, 1010000100, 11$$

$$\begin{array}{r}
 \overline{101110} \quad \overline{1110} \\
 \underline{1110} \quad \underline{11} \\
 \overline{10010} \\
 \underline{1110} \\
 \hline
 00100
 \end{array}$$

$$1110011 \div 101 = 111000, 1101110, 1001111, 10111$$

$$\begin{array}{r}
 \overline{1110011} \quad \overline{101} \\
 \underline{101} \quad \underline{10111} \\
 0100 \\
 \underline{000} \\
 \overline{1000} \\
 \underline{101} \\
 00111 \\
 \underline{101} \\
 000101 \\
 \underline{101} \\
 000
 \end{array}$$

$$\begin{array}{r}
 1110011 \times \\
 \underline{101} = \\
 1110011 \\
 0000000 / \\
 1110011 / / \\
 \hline
 1000111111 \\
 \\
 \begin{array}{r}
 111 \\
 1110011 + \\
 \underline{101} = \\
 1111000
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 111011 - \\
 101
 \end{array}$$