

مسئله ۱۴۶۴۹۹۹۹

Subject:

Year : Month : Day : ( )

$$29 = 011101 \xrightarrow{2\text{مربع}} -29 = 100011 \quad +2 \quad (1)$$

$$21 = 010101 \xrightarrow{2\text{مربع}} -21 = 101011 \quad +2$$

الف)

$$\begin{array}{r} 111101 \\ + 010101 \\ \hline 110010 \end{array} \Rightarrow \begin{array}{r} 111101 \\ + 110111 \\ \hline 001110 \end{array}$$

سریندارد  $\Rightarrow$  سریندارد

+1

ب)  $(11001001)_2 \Rightarrow (10001110)_2$

+4

+2

+4

-1

-2 because there is no solution

-2 because there is no solution

ج)  $(11001001)_2 \Rightarrow (10101101)_{\text{Gray}}$

+2

no solution

د)  $11001001 \Rightarrow$

1	1	1	0	1	0	0	1	0	0	1
$p_1$	$p_2$	$d_1$	$p_3$	$d_2$	$p_4$	$d_3$	$p_5$	$d_4$	$d_5$	$d_6$

+8

$\Rightarrow (111010001001)_{\text{Hem}}$

ه)  $(473406.12234)_8 \Rightarrow$

$473406 \Rightarrow 101110111000000110$

$12234 \Rightarrow 00101001001100$

+7

$\Rightarrow (1011101110000001101010101001100)_2 \Rightarrow (27709/2928)_{16}$

و)  $011110001001 \Rightarrow$

0	1	1	1	1	0	0	0	1	0	0	1
$p_1$	$p_2$	$d_1$	$p_3$	$d_2$	$d_3$	$d_4$	$p_5$	$d_5$	$d_6$	$d_7$	$d_8$

9)

$\Rightarrow 11110001001 \Rightarrow \text{Error in } d_8 \Rightarrow 011100001001$

$\Rightarrow$  کد اصلاحی:  $10001001$

+8