

TASK # 1

esden.

- From Trulk Table 9/10 - [0 0 0 0 0 1 1 1 1] P. P. d. P. d. d. du P. last you to parity 1 10101010

TASK #2

$$R_{1} \rightarrow R_{1} + R_{2}$$

$$R_{1} \rightarrow R_{2} + R_{4}$$

$$R_{1} \rightarrow R_{2} + R_{4}$$

$$R_{2} \rightarrow R_{3} + R_{4}$$

$$R_{3} \rightarrow R_{3} + R_{4}$$

$$R_{1} \rightarrow R_{1} + R_{4}$$

$$R_{2} \rightarrow R_{3} + R_{4}$$

$$R_{3} \rightarrow R_{3} + R_{4}$$

$$R_{4} \rightarrow R_{1} + R_{4}$$

$$R_{5} \rightarrow R_{5} + R_{4}$$

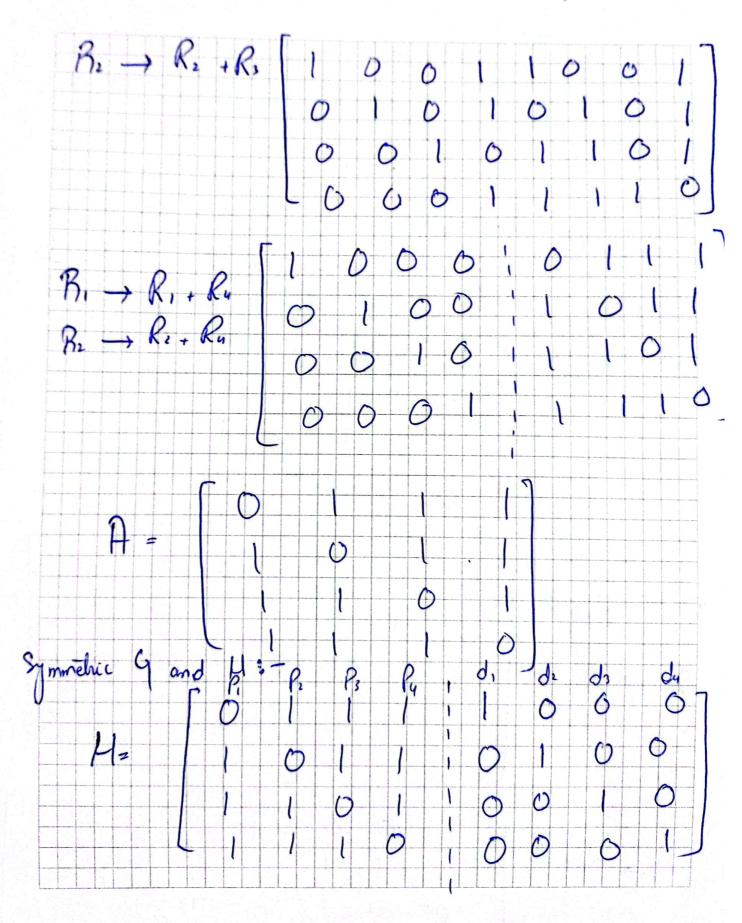
$$R_{1} \rightarrow R_{1} \rightarrow R_{1} + R_{4}$$

$$R_{1} \rightarrow R_{1} \rightarrow R_{1} + R_{4}$$

$$R_{1} \rightarrow R_{1} \rightarrow R_{1$$

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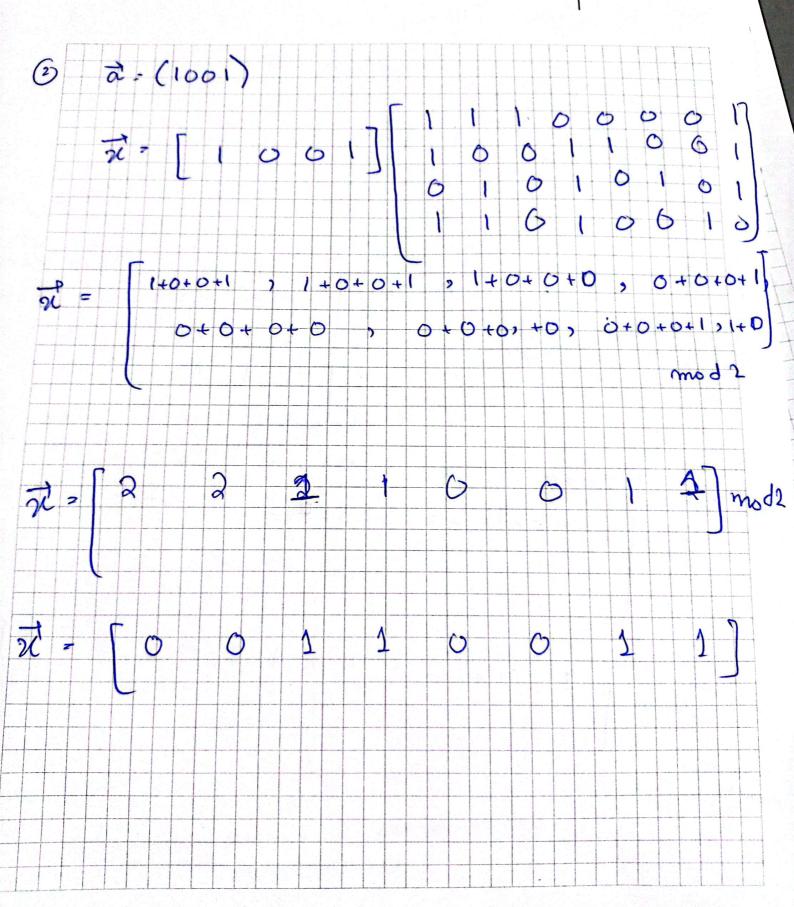
Task#3

Encode The following

$$\vec{x} = (\vec{a} \cdot \vec{q}) \mod 2$$
 $\vec{a} = (0100)$
 $\vec{n} = [0 \ 1 \ 0 \ 0] [1 \ 1 \ 0 \ 0 \ 0 \ 0] [1 \ 0 \ 0 \ 0] [1 \ 0$

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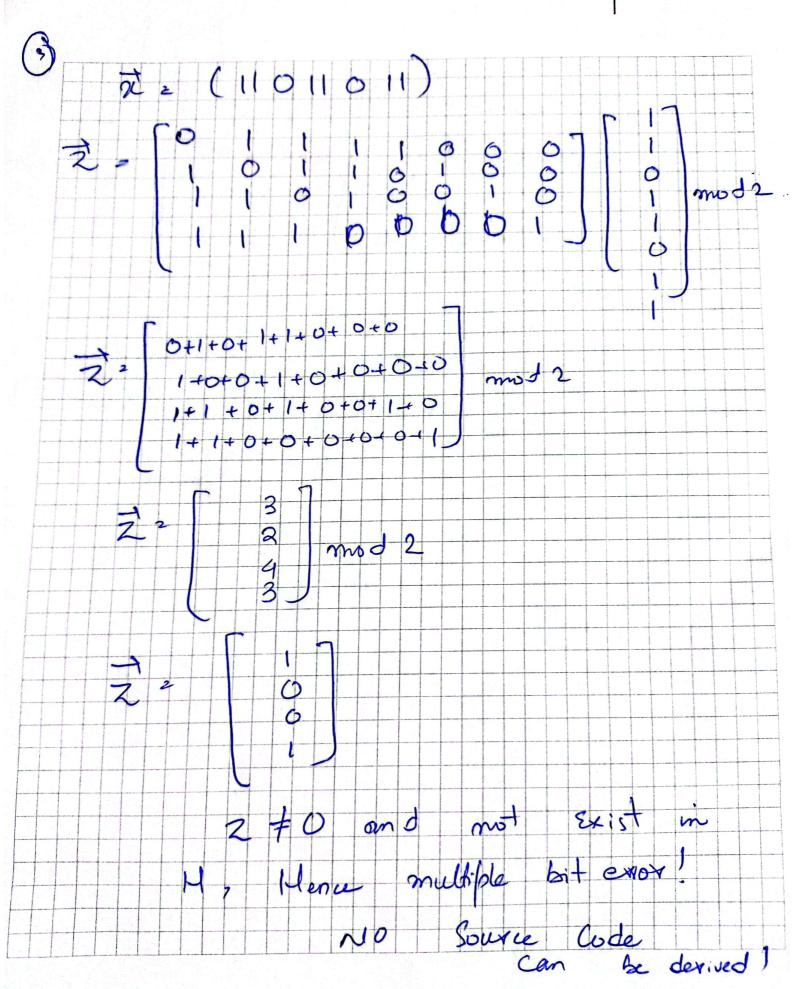
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	2.[1		01		000	00 11 010 010	000	
₹· [1+1+0+1	, 1-	, 0		1+0	+0+0 ,	0+1+0+	1
₫,	3	2		2		O	1 2	mod
え!		0		٥		0 1	٥٦	

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(1) 72 - (4. 52) mod 2	2 = 11001101			
	1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0			
2 0 0 1 + 0 + 0 + 1 + 0 + 0 + 0 + 0 + 0 +	mwdr = 2 mwdr			
Correction of Emor:	Single bit is flipped in n.			
77 601100100				

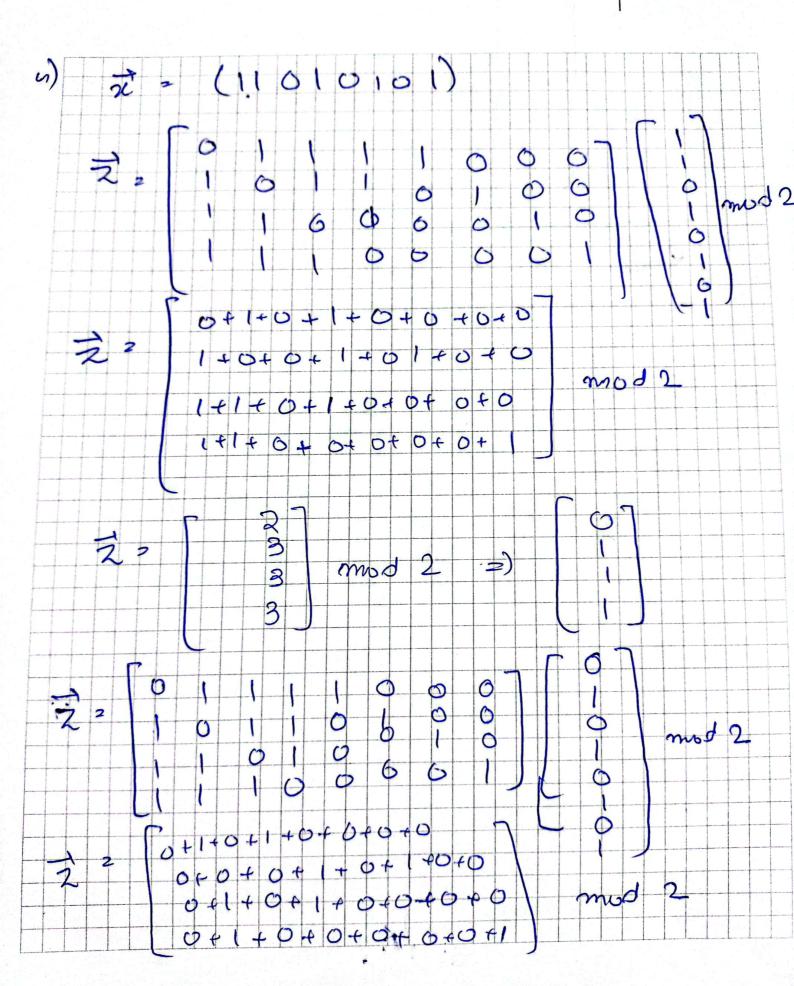
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$$\vec{z} = \begin{bmatrix} 2 \\ 2 \\ 2 \\ 2 \end{bmatrix} \mod 2$$
 $\vec{z} = \begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix}$

Source Code = 0010