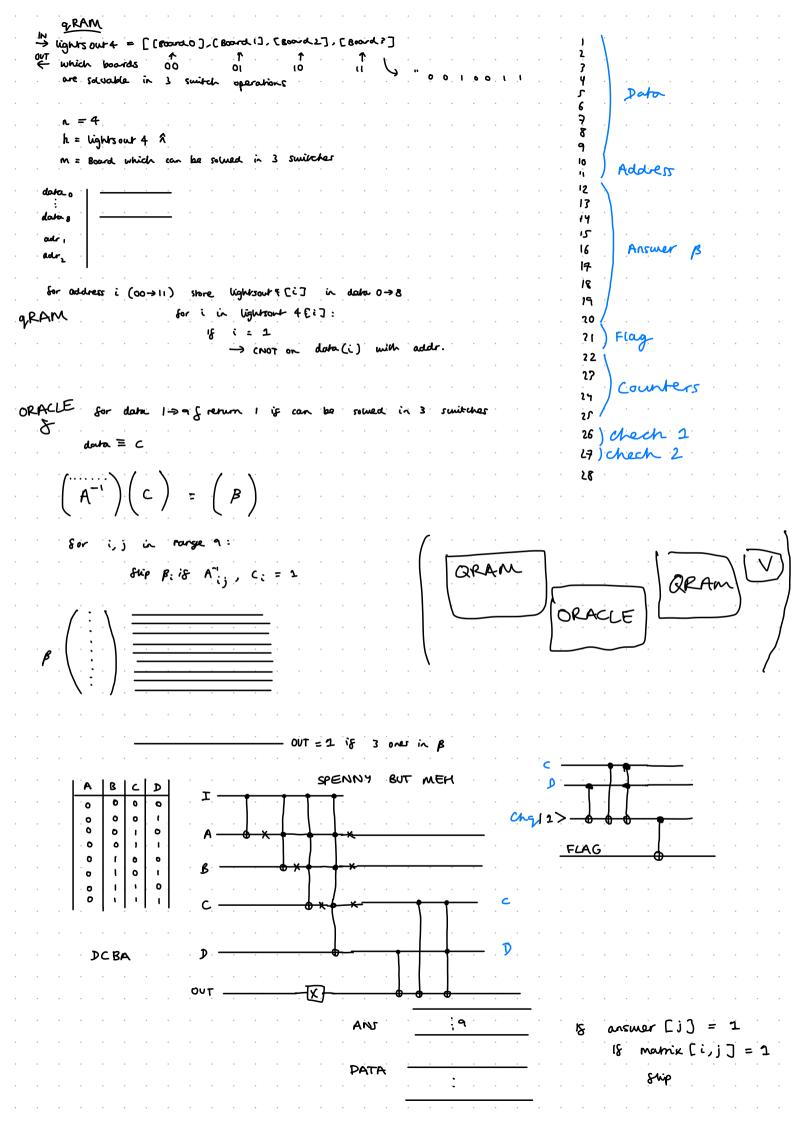
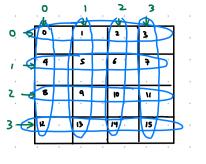


Let $C \in \mathbb{Z}_{2}^{14}$ be a Starting light configuration A:; represent a button press on i; $C' = C + A : j \text{indicates if a button must be pressed}$ $0 \rightarrow 1 : j C' = C + A : j \text{indicates if a button must be pressed}$ $0 \rightarrow 1 : j C' = C + A : j \text{indicates if a button must be pressed}$ $0 \rightarrow 1 : j C' = C + A : j \text{indicates if a button must be pressed}$ $0 \rightarrow 1 : j C' = C + A : j \text{indicates if a button must be pressed}$ $0 \rightarrow 1 : j C' = C + A : j \text{indicates if a button must be pressed}$ $0 \rightarrow 1 : j C' = C + A : j \text{indicates if a button must be pressed}$ $0 \rightarrow 1 : j C' = C + A : j \text{indicates if a button must be pressed}$ $0 \rightarrow 1 : j C' = C + A : j \text{indicates if a button must be pressed}$ $0 \rightarrow 1 : j C' = C + A : j \text{indicates if a button must be pressed}$ $0 \rightarrow 1 : j C' = C + A : j \text{indicates if a button must be pressed}$ $0 \rightarrow 1 : j C' = C + A : j \text{indicates if a button must be pressed}$ $1 \rightarrow 0 : j C' = C + A : j \text{indicates if a button must be pressed}$ $1 \rightarrow 0 : j C' = C + A : j \text{indicates if a button must be pressed}$ $1 \rightarrow 0 : j C' = C + A : j \text{indicates if a button must be pressed}$ $1 \rightarrow 0 : j C' = C + A : j \text{indicates if a button must be pressed}$ $1 \rightarrow 0 : j C' = C + A : j \text{indicates if a button must be pressed}$ $2 \rightarrow 1 : j C' = C + A : j \text{indicates if a button must be pressed}$ $2 \rightarrow 1 : j C' = C + A : j \text{indicates if a button must be pressed}$ $2 \rightarrow 1 : j C' = C + A : j \text{indicates if a button must be pressed}$ $2 \rightarrow 1 : j C' = C + A : j \text{indicates if a button must be pressed}$ $2 \rightarrow 1 : j C' = C + A :$	
Imput = [0,1,1,1,0,0,1,1,1] = ((uights at start)	
If $[V_0 \rightarrow V_8]$ are a solution: $f = 1$ erze $f = 0$	
$\begin{array}{c} \beta_{n} & \\ \vdots & \vdots & \\ C_{n} & \\ C_{n} & \\ \vdots & \\ C_{n} & \\ C_{$	

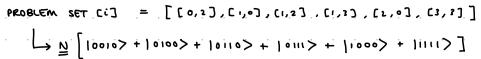


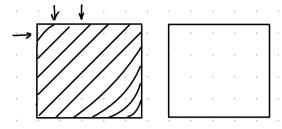


ADDRESS

20

28 | FLAG

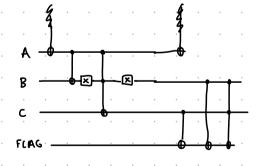




$$(8 \times 16)(16 \times 1) = (8 \times 1)$$
 Solution

for r in range (4) 001 010

FLAG



OPTIMIS ATION

2 QUBIT CONTROL:
$$CCK \rightarrow 33 + 10 \times 18 = 10 \times 1$$

$$RCC \times \left| \longrightarrow \right|$$
 6 + 10 × 3 = 36

ANCILLA MCT
$$\rightarrow$$
 21 + 10 x12 = 141