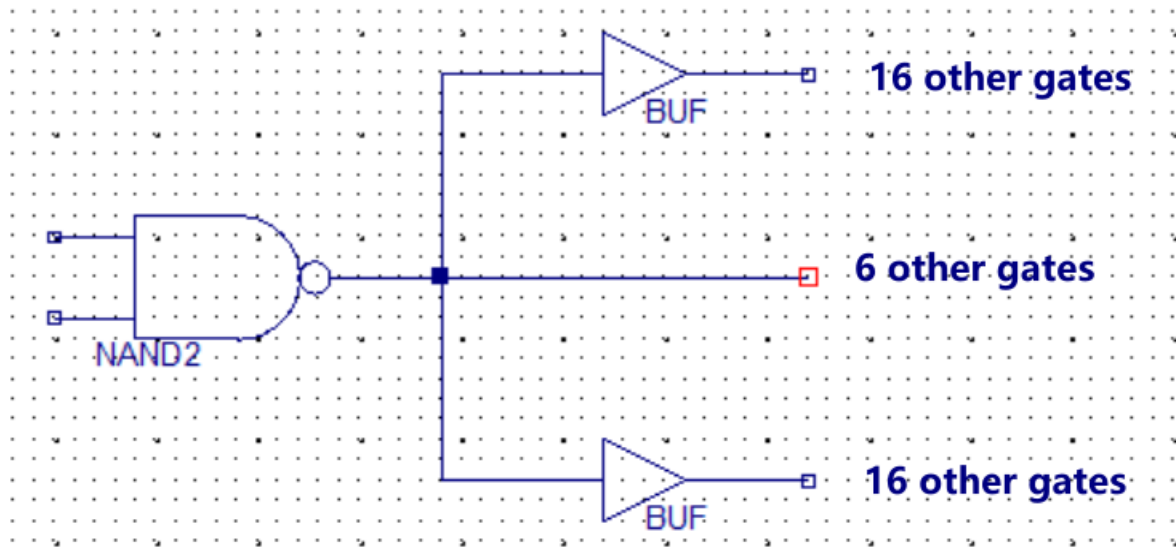
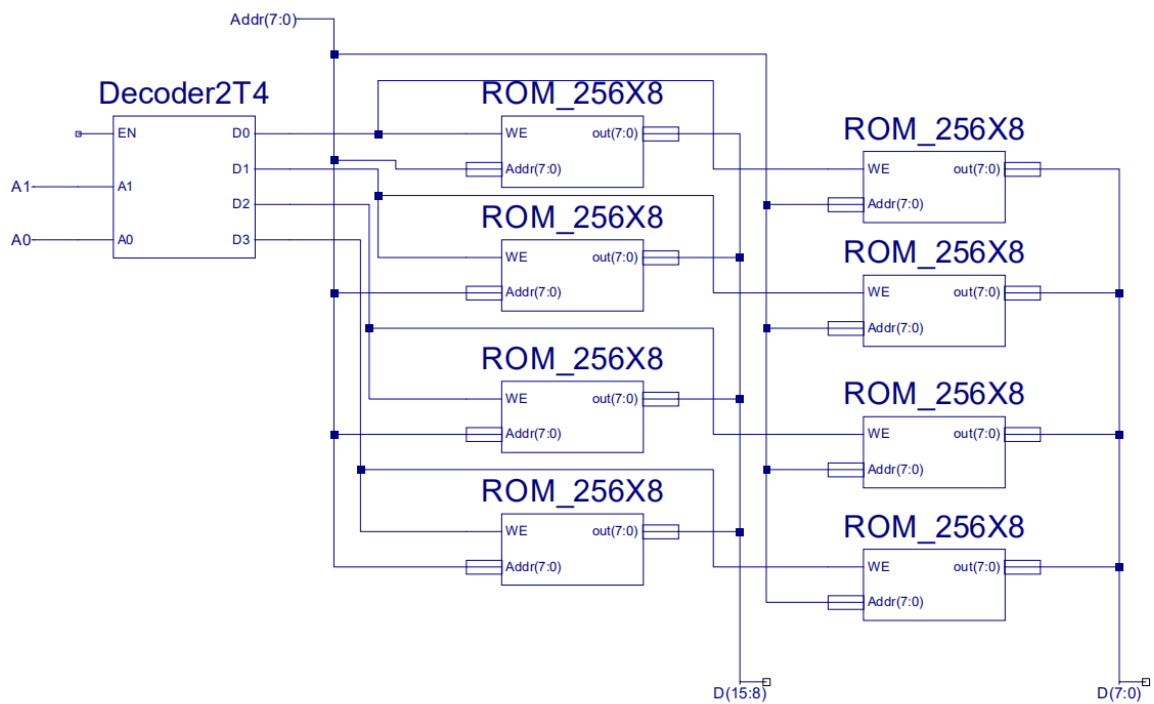


## 5-3



**5-4**

**(a)**



**(b)**

$$\frac{4096}{256} \times \frac{32}{8} = 64$$

So 64 chips are needed.

## 5-12

$$A = X\bar{Z} + Y\bar{Z} + \bar{X}\bar{Y}Z$$

$$B = XY + \bar{X}\bar{Y} + \bar{X}Z$$

$$C = A + XY$$

$$D = \bar{X}Y + Z$$

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