

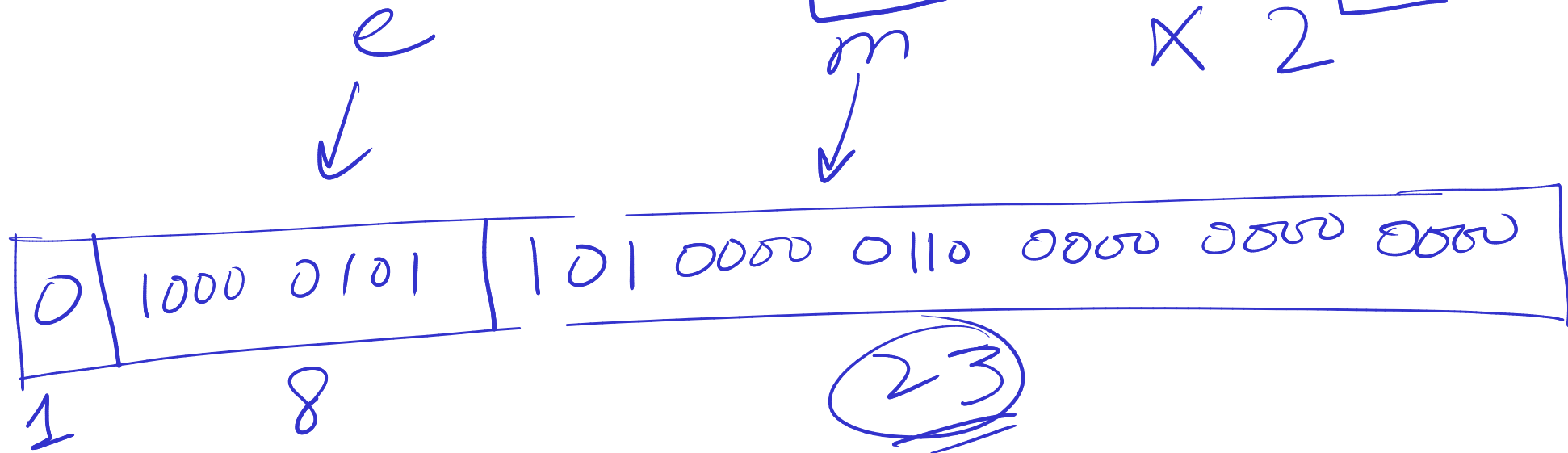
Q#01

$$104.1875 \Rightarrow$$

$$1101000.0011$$

$$\Rightarrow \boxed{1.} \boxed{1010000} \boxed{00110}$$

\downarrow \downarrow \downarrow
 m $\times 2$ 6



$$e = 6 + 127 \Rightarrow 133$$

$$\Rightarrow \underline{10000101}$$

\downarrow \downarrow
 1 1

$$-213.4375 \Rightarrow \ominus \overbrace{1101\ 0101}^{\text{7}}.0111$$

$$1.\underline{101\ 0101\ 0111} \times 2^7$$

$$\text{exp} = 7 + (127) \Rightarrow 134 \Rightarrow 1000\ 0110$$

1	1000 0110	101 0101 0111 0000 0000 0000
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32 bits

32

2

\Rightarrow

(2×2)

\times

2

30

\Rightarrow

4

\times

$\begin{array}{|c|} \hline 30 \\ \hline 2 \\ \hline \end{array}$

GB

\Rightarrow 4 GB

