

4A00CAFE 02230000 DEADBEEF

a) 4A...
 ↑ ↙
 version length
 $A = 1010 = 10_{10}$

$$\text{size} = 10$$

$$\begin{aligned} \text{length} &= 10 \times 4 \text{ bytes} \\ &= 40 \text{ bytes} \end{aligned}$$

b) 4A00CAFE
 version header length service Total length

CAFE, total length

$$\overset{3}{C} \overset{2}{A} \overset{1}{F} \overset{0}{E} = 16^3 \times 12 + 16^2 \times 10 + 16^1 \times 15 + 16^0 \times 14 = 51966$$

$$\text{Total length} = \text{header} + \text{payload}$$

$$51966 = 40 \text{ bytes} + \text{payload}$$

$$\text{payload} = 51926 \text{ bytes}$$