

No. _____
Date _____

1. 20 000A LDA LENGTH

$$\text{disp} = \text{LENGTH} - (\text{PC}) = 33 - 0017 = (26)_{16}$$

$$\text{op} = 00h$$

$$\begin{array}{ccccccc} & & \text{fix bpe} & & & & \\ 000000 & 110010 & 026 & & & & \\ 0 & 3 & 2 & 026 & & & \Rightarrow 032026 \end{array}$$

2. 65 0026 ~~+~~ SUB WRREL 0105D

$$\text{op} = 48h = \begin{array}{ccccccc} 0100 & 10 & & \text{fix bpe} & & & \\ & & & 110001 & & & \\ .4 & B & 1 & 0105D & & & \Rightarrow 4B10105D \end{array}$$

3. 220 1065 JEQ WLOOP 1062

$$\text{disp} = 1062 - 1068 = -6 = \text{FFA}$$

$$\text{op} = 30h = \begin{array}{ccccccc} 001100 & & \text{fix bpe} & & & & \\ & & 110010 & & & & \\ 3 & 3 & 2 & FFA & & & \Rightarrow 332FFA \end{array}$$

4. 225 1068 LDCH BUFFER, X

$$\text{disp} = 36 - 106B \Rightarrow \text{out range}$$

$$36 - \text{Base} = 36 - 33 = 3h$$

$$\text{op} = 50h = \begin{array}{ccccccc} 010100 & & \text{fix bpe} & & & & \\ & & 101100 & & & & \\ 5 & 3 & C & 003 & & & \Rightarrow 53C003 \end{array}$$