Exercises Weak 9: Haming Distance

 $s_4$ 

a) 
$$\phi(c_{11}c_{2}) = 3$$
 =  $3$ 

Number of errors delected
$$e_b = 1 \quad (\theta_{\text{Hain}} - 1)$$

$$\theta_c = \left[\frac{\theta_{\text{Hain}} - 1}{2}\right] = 1$$

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Error solution: Rz is not a codeword 
$$\Rightarrow D$$
 there one errors!

$$d(\Re_z, c_1) = 2$$

$$c_2 = 1$$

$$c_3 = 5$$
We obsert know which to choose!

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d(
$$R_{23}$$
,  $C_1$ ) = 1 => the correct codeword is  $C_L$ : 00000  
 $C_2$  = 2 We get an order on 4th position ( $R_2$  = 00000)

$$R = 10011$$

$$R_2 = 00011 = 1 \text{ can detect / but can't carrect}$$