Note Tit	Quiz 3 sample solution
	an 1
	o train on 1-6, test on 7-9: a best rule is NHG, DHB (with lenor on 1-6), gives 1 eror on 7-9
	• train on 13,79, test on 4-6: a best rule is NHG, DHB (with 1 error on 13,79), gives 1 error on 4-6
	• train on 4-9, test on 1-3: a best rule is $Q \mapsto G$ , $L \mapsto B$ (with 1 error on 4-9), gives 1 error on 1-3
	=> 3/9 errors, error rate is 33-3%.

We choose to use the C4.5 recommended one-sided confidence interval of 25% for estimating conservative error rates. Therefore, cons. err. pates will be computed by adding 0.69 std days to the regular error rate.

1) Nove Demor rate

err rate is 6/20 = 0.3std den is  $\sqrt{0.3\times0.7}$  = 0.10

: cons. err. rate = 0-3+ 0.69 x 0.10 = 0.37

2) Nove E error rate

err rate is  $\frac{2}{10} = 0.2$ std den is  $\frac{0.2 \times 0.8}{10} = 0.13$ 

: cons. err. rate = 0-2 + 0.69 x 0.13 = 0-29

