

Lab 3 Conclusion Questions

2.2

ARR = 6

Case	CCR Value	Pulse Width	Pulse Period	Duty Cycle
1	CCR = 1	1	7	1/7
2	CCR = 2	2	7	2/7
3	CCR = 3	3	7	3/7

3.3

1. $1 / (16\text{MHz} / (25 + 1)) = 1.625 \text{ microseconds}$
2. $150 \text{ us} * (1 \text{ count} / 1.625 \text{ us}) = 92.31$
 $38 \text{ ms} * (1 \text{ count} / 1.625 \text{ us}) = 23,384.62$
 $\text{Range} = 92.31 < x < 23,384.62$
3. $\text{Reset} = 1.625\text{us} * 2^{16}(\text{max_arr}) = 106.5 \text{ ms}$