

EE-443 LAB 8 QuestionsBurak YÖRÜK
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Question 1: If the `EnQueueUSARTbuffer()` and `DeQueueUSARTbuffer()` functions are interrupted, we can see the wrong values on the terminal screen. We must make sure that other functions do not interfere with our code. Also, increasing baudrate can also increase the error rate.

Question 2:

We can you determine the CPU load using the following idle loop in the main program. Because of observing time markers.

```
while(1)
{ PORTD |= _BV(PORTD4); // Set timing marker.
  _delay_ms(50);
  PORTD &= ~_BV(PORTD4); // Clear timing marker.
  _delay_ms(50);
}
```

I measured a difference of 150 ms between two waves at PortD4. I know that the delay functions are kept 50 ms, then 100 ms used for delays. Therefore, I can say that the idle loop keeps 50 ms.

