Potential Failure Mode	Potential Failure Effect	Severity	Potential Cause
Too much text pasted	crash the program	10	buffer overflow
PC uses incorrect Baud Rate	incorrect character decoding	10	incorrect putty settings
Too much text pasted	crash the terminal emulator	10	putty freezes
accessing uninitialized buffer	crash the program	10	using the api incorrectly
Power not applied to KL25Z	program won't start	10	not connecting KL25Z
No connection to PC	No text will be sent or rx	1	not connecting PC

Occurrence	Controls	Detection	RPN
3	Auto-resize buffer, bigger heap	1	30
2	none	1	20
2	none	1	20
1	check if buffer valid before operating on it	1	10
1	none	1	10
1	none	1	1