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Roll No.23

```
In [1]: import re
        def extract_critical_errors(log_data: str) -> list[tuple]:
            pattern = re.compile(
                matches = pattern.findall(log data)
            return [(timestamp, module, message) for timestamp, module, message in matches]
        # Example usage
        log data = """[2025-03-09 08:15:45] [ERROR] [Firewall_Module] Blocked unauthorized access from 172.16.0.2. Erro
         [2025-03-09 09:30:22] [DEBUG] [Cache_Module] Cache cleared successfully.
         [2025-03-09 10:05:12] [ERROR] [Network Module] Packet loss detected from 192.168.0.254. Error Code: 0x1234ABCD
        [2025-03-09 11:45:30] [INFO] [System_Module] System rebooted successfully.
        [2025-03-09 12:10:55] [ERROR] [Security_Module] Malware detected from 10.10.10.10. Error Code: 0x9876FEDC"""
        result = extract_critical_errors(log_data)
        print(result)
        [('2025-03-09 08:15:45', 'Firewall Module', 'Blocked unauthorized access from 172.16.0.2. Error Code: 0xFE12ABC
        D'), ('2025-03-09 10:05:12', 'Network_Module', 'Packet loss detected from 192.168.0.254. Error Code: 0x1234ABCD'), ('2025-03-09 12:10:55', 'Security_Module', 'Malware detected from 10.10.10. Error Code: 0x9876FEDC')]
In [ ]:
```