C++ Exercises Set1

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To transform multiple NTBSs into one RSL and provide a rule when a delimiter needs to be used.

Listing 1: rsl.cc

Output:

```
^\s+Encryption key:(\w+)
^\s+Quality=(\d+)
^\s+E?SSID:"([[:print:]]+)"
^\s+ssid="([[:print:]]+)"
```

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To write a program that initialises a size_t value field using a bit-fields struct and a union.

Listing 2: bitfield.cc

```
#include <iostream>
using namespace std;
struct BitField
                                     // Declares a bit-field struct that
                                     // adheres to the given constraints.
    size_t bit0:
    size_t field0: 3;
    size_t field1: 4;
    size_t field2: 5;
    size_t field3: 4;
    size_t field4: 4;
    size_t field5: 4;
    size_t field6: 4;
    size_t field7: 4;
    size_t field8: 5;
    size_t field9: 2;
```

Output: c0ffeecafe