1)

BASE
BALL
_____
GAMES

B = 7
A = 4
S = 8
L = 5
G = 1
M = 9
E = 3 .

$$
\begin{array}{r}
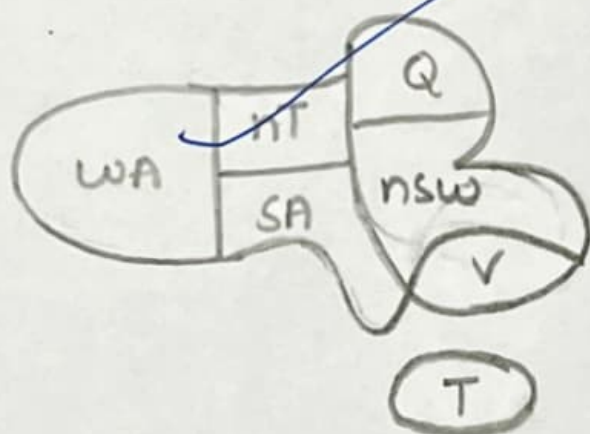7\ 4\ 8\ 3 \\
7\ 4\ 5\ 5 \\
\hline
1\ 4\ 9\ 3\ 8
\end{array}
$$

2)

V = {WA, NT, Q, NSW, V, SA, T}

D = {Red, green, blue}

Constraints = Adjacent cont have same coours.

	WA	NT	SA	Q	NSW	V	T
Initial	RGB	RGB	RGB	RGB	RGB	RGB	RGB
WA→R	R	GB	GB	RGB	RGB	RGB	RGB
NT→G	R	G	B	RB	RGB	RGB	RGB
SA→B	R	G	R	R	G	RG	RGB
Q→R	R	G	R	R	G	RG	RGB
NSW→G	R	G	B	R	G	R	RGB
V→R	R	G	B	R	G	R	GB
T→G	R	G	B	R	G	R	GB

WA→R
NT→G
SA→B
Q→R
NSW→G
V→R
T→G