|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Location | 1 | 2 | 3 | 4 | 5 |
| Color | R, g, I, Y, B | R, g, I, Y, B | R, g, I, Y, B | R, g, I, Y, B | R, g, I, Y, B |
| Owner | Eng, sp, UK, Nor, Jp | Eng, sp, UK, Nor, Jp | Eng, sp, UK, Nor, Jp | Eng, sp, UK, Nor, Jp | Eng, sp, UK, Nor, Jp |
| Pet | D, sn, F, H, Z | D, sn, F, H, Z | D, sn, F, H, Z | D, sn, F, H, Z | D, sn, F, H, Z |
| Cig | W, K, C, L, P | W, K, C, L, P | W, K, C, L, P | W, K, C, L, P | W, K, C, L, P |
| Drink | C, T, M, OJ, W | C, T, M, OJ, W | C, T, M, OJ, W | C, T, M, OJ, W | C, T, M, OJ, W |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **House** | **1** | **2** | **3** | **4** | **5** |
| **Color** | Yellow | Blue | Red | Ivory | Green |
| **Nationality** | Norwegian | Ukrainian | Englishman | Spaniard | Japanese |
| **Drink** | **Water** | Tea | Milk | Orange juice | Coffee |
| **Smoke** | Kools | Chesterfield | Old Gold | Lucky Strike | Parliament |
| **Pet** | Fox | Horse | Snails | Dog | **Zebra** |

Variables = red, green, English…

Domains = Pet, Cigerette…

Constraint = rule to relate variables to domains and to determine what is possible