Section A

# 1a

H D F A B J L M N K P Q E G C

# 1b

|  |  |  |  |
| --- | --- | --- | --- |
| Node | f(n) | g(n) | h(n) |
| H | 40 | 0 | 40 |
| D | 40 | 10 | 30 |
| L | 41 | 40 | 1 |
| K | 42 | 20 | 22 |
| E | 44 | 30 | 14 |
| C | 45 | 45 | 0 |
| N | 55 | 55 | 0 |
| G | 56 | 50 | 6 |
| B | 60 | 30 | 30 |
| M | 65 | 60 | 5 |
| P | 68 | 38 | 30 |
| J | 72 | 32 | 40 |
| F | 77 | 22 | 55 |
| Q | 80 | 40 | 40 |
| A | 90 | 30 | 60 |

## 1c

**Effect axioms:**

Holds (Colour(x, y), Result(Paint(x, y))) <- Holds(Dry(x), s)