```
Exit[]; n Back
```

```
G[i_] := V[i] (b[i] - 1)
```

```
Lis2 = {1, 2, 3, 4}; Lis = Table[RotateLeft[Lis2, i], {i, 1, Length[Lis]}]
```

$$\{\{2, 3, 4, 1\}, \{3, 4, 1, 2\}, \{4, 1, 2, 3\}, \{1, 2, 3, 4\}\}$$

```
eq = Table[
   A == G[Lis[[i, 1]]] - Sum[V[Lis[[i, j]]], {j, 2, Length[Lis[[i]]]}],
   {i, 1, Length[Lis]}]
```

$$\{A == -V[1] + (-1 + b[2])\, V[2] - V[3] - V[4],\ A == -V[1] - V[2] + (-1 + b[3])\, V[3] - V[4],$$
$$A == -V[1] - V[2] - V[3] + (-1 + b[4])\, V[4],\ A == (-1 + b[1])\, V[1] - V[2] - V[3] - V[4]\}$$

```
Simplify[A / Solve[eq, Map[V, Lis2]][[1, 1, 2]] / b[1]]
```

$$1 - \frac{1}{b[1]} - \frac{1}{b[2]} - \frac{1}{b[3]} - \frac{1}{b[4]}$$

```
Solve[1 / (l - 1) == b - 1, b]
```

$$\left\{\left\{b \to \frac{l}{-1 + l}\right\}\right\}$$

```
Exit []
```

```
G1 = b1 - 1; G2 = (b2 - 1) * a; G3 = (b3 - 1) * b
```

$$b\ (-1 + b3)$$

```
b1 = 4.5; b2 = 1.72; b3 = 2.266
```

$$2.266$$

```
Plot3D[{G1 - a - b, G2 - 1 - b, G3 - 1 - a}, {a, 0, 1}, {b, 0, 1}, PlotRange → {0, 1}]
```