## Cleaning a circuit

This is another demo of some of the lower level functions, which the program uses to implement higher level functionality.

## 1. Cloning

Cloning a circuit is a straight forward way of preserving the original circuit by manipulating a copy of the circuit. We load an arbitrary circuit.

We then clone the circuit object and start manipulating it.

```
c2 = c1.clone;
ELAB.simplify(c2);
c2.list

ans =
   'Vin 1 0 DC 5
   Req1 1 0 4000
   '
```

As seen here, the original circuit is preserved.

```
c1.list

ans =
   'Vin 1 0 DC 5
   R1 1 2 1000
   R2 2 0 3000
   '
```

## 2. Exporting

To export the netlist of a circuit object, we simply call the circuit's export function, which will create a netlist file in the current directory.

```
pwd
ans =
'C:\Users\nkvra\Google_Drive\Documents\Projects\ELABorate\examples'
```