

Invariants[a , t] gives the new values of a and t after one of each set of equivalent knots in a is moved to t .

```
Invariants[a_List, t_List] := Invariants[a, t] =  
  Block[{l = a, r = t},  
    Do[If[(i = i /@ l) ≠ {},  
      r = Select[{l, i}^T, Count[i, #[[2]] == 1 &]^T[[1]] ∪ r;  
      l = Complement[l, r]],  
      {i, {If[# === Abs /@ #, #, 0] &,   
        JonesPolynomial, Colourings[#, 5] &}}];  
    {l, r}];
```