

`KnotAssociation@n` gives an association that returns the list of all valid knots with  $n$  crossings whose alternating form is equal to the given knot.

```
KnotAssociation@n_Integer := KnotAssociation@n =  
  Table[k → Select[ValidKnots@n, Abs /@ # == k &] ,  
    {k, CandidateKnots@n}] // Association;
```