```
Strand[i, j] represents a strand from index i to index j that
    can be stitched with other strands into longer strands or circles.
```

```
SetAttributes[Strand, Orderless];
Strand /:
```

Strand[i_, j_] Strand[j_, k_] := Strand[i, k];

Strand /: Strand[i , i] := $-q^{1/2} - q^{-1/2}$; Strand /: Strand[] $^2 := -q^{1/2} - q^{-1/2};$