

PermutationConjugation[i, j] gives the
conjugation of the permutations i and j by evaluating jij^{-1}

```
PermutationConjugation[i_List, j_List] :=  
  PermutationConjugation[i, j] =  
    PermutationProduct[j, i, InversePermutation@j];
```