

PermutationConjugation[a, g] gives the conjugation of the permutations a and g by evaluating gag^{-1}

```
PermutationConjugation[a_List, g_List] :=
```

```
    PermutationConjugation[a, g] =
```

```
        PermutationProduct[g, a, InversePermutation@g];
```