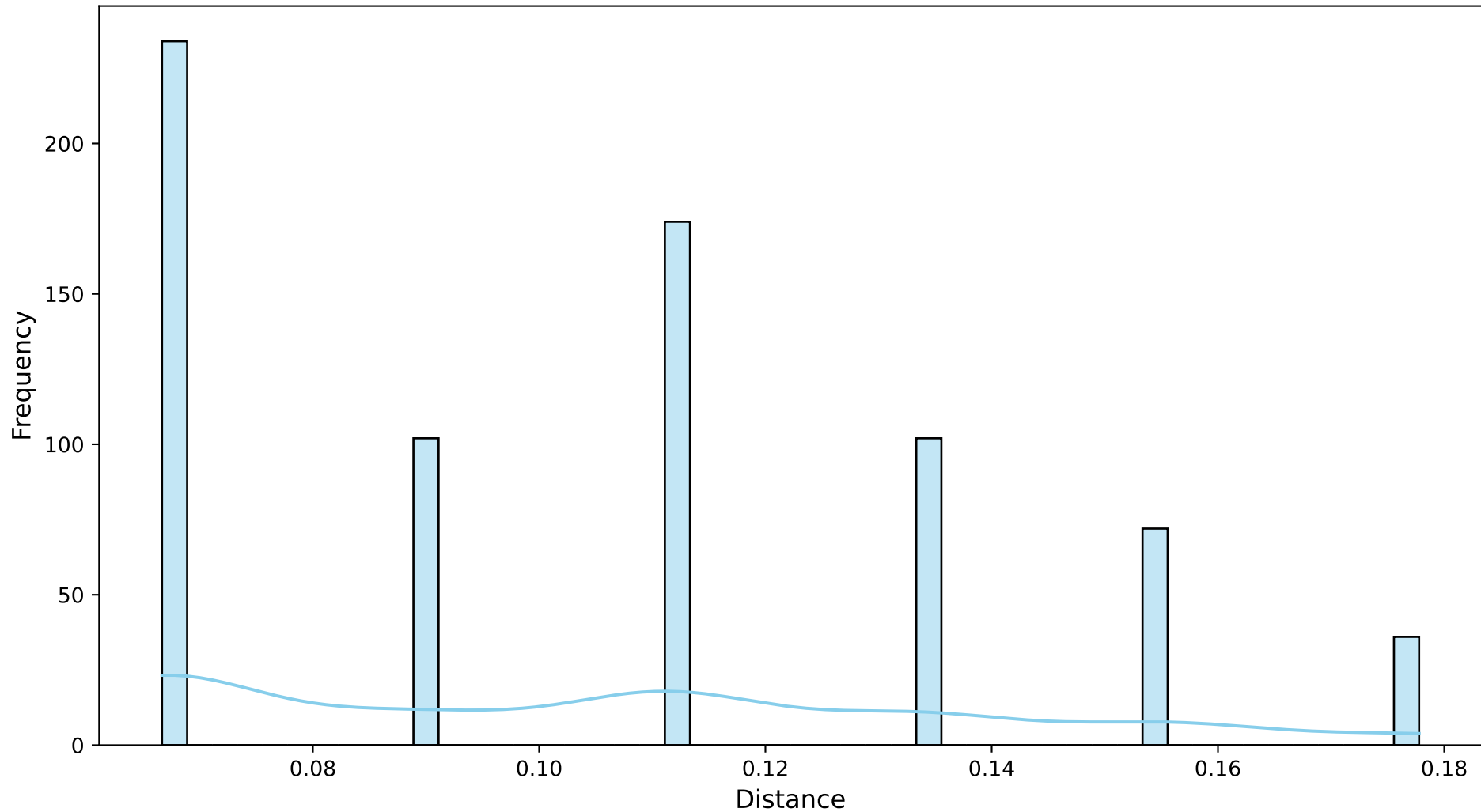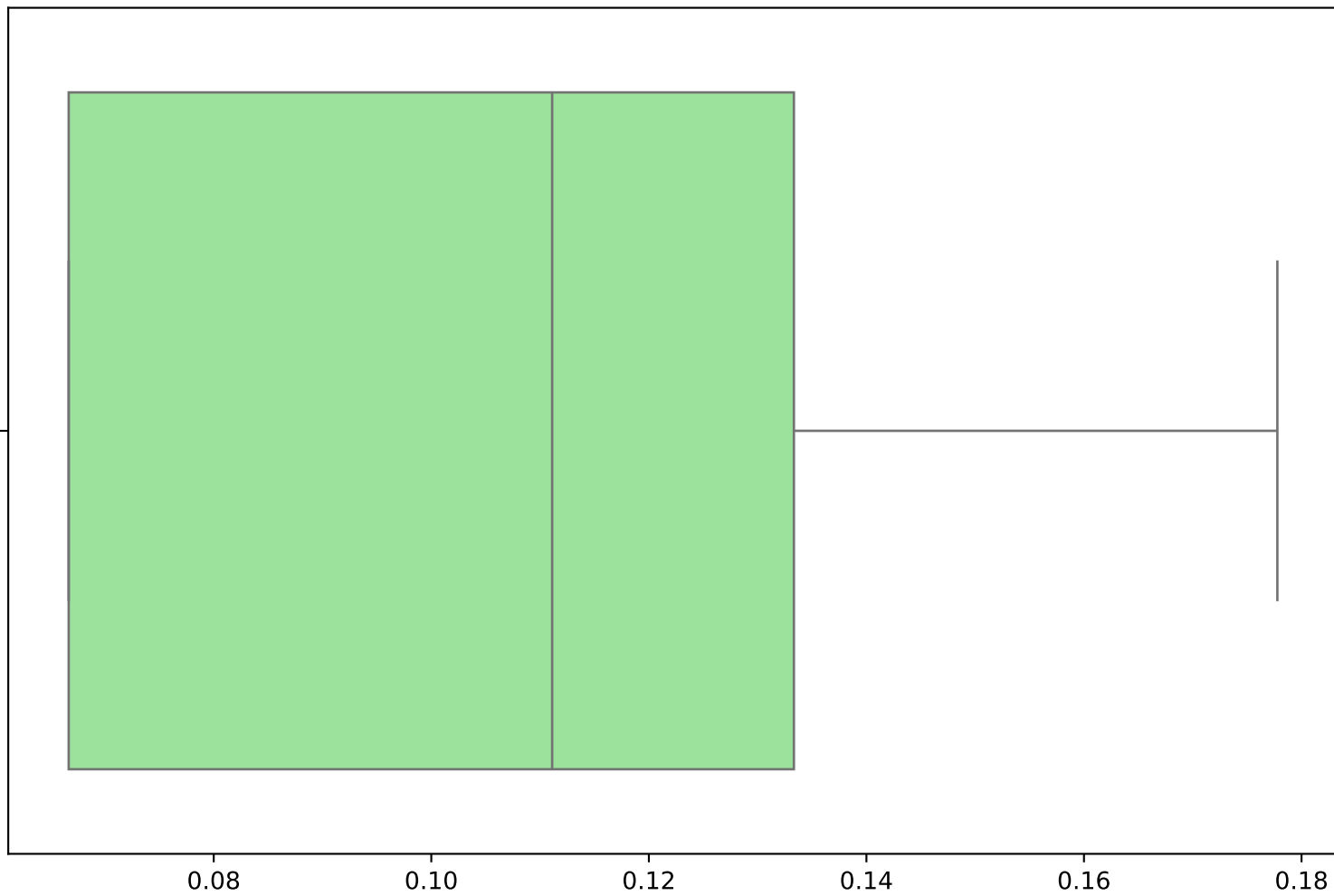**Distribution of Distances Across Permutations**
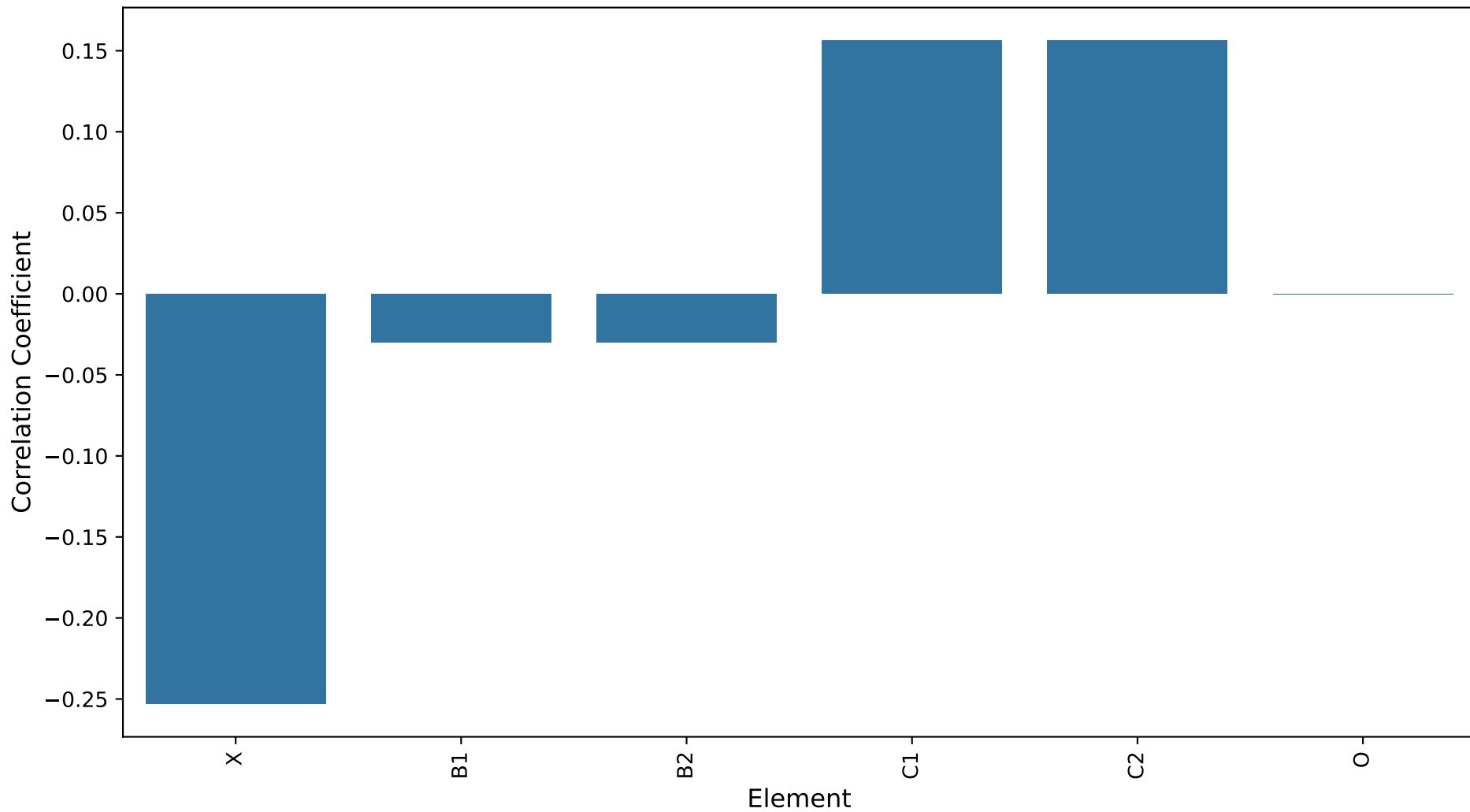
Histogram showing how distances vary across all permutations.
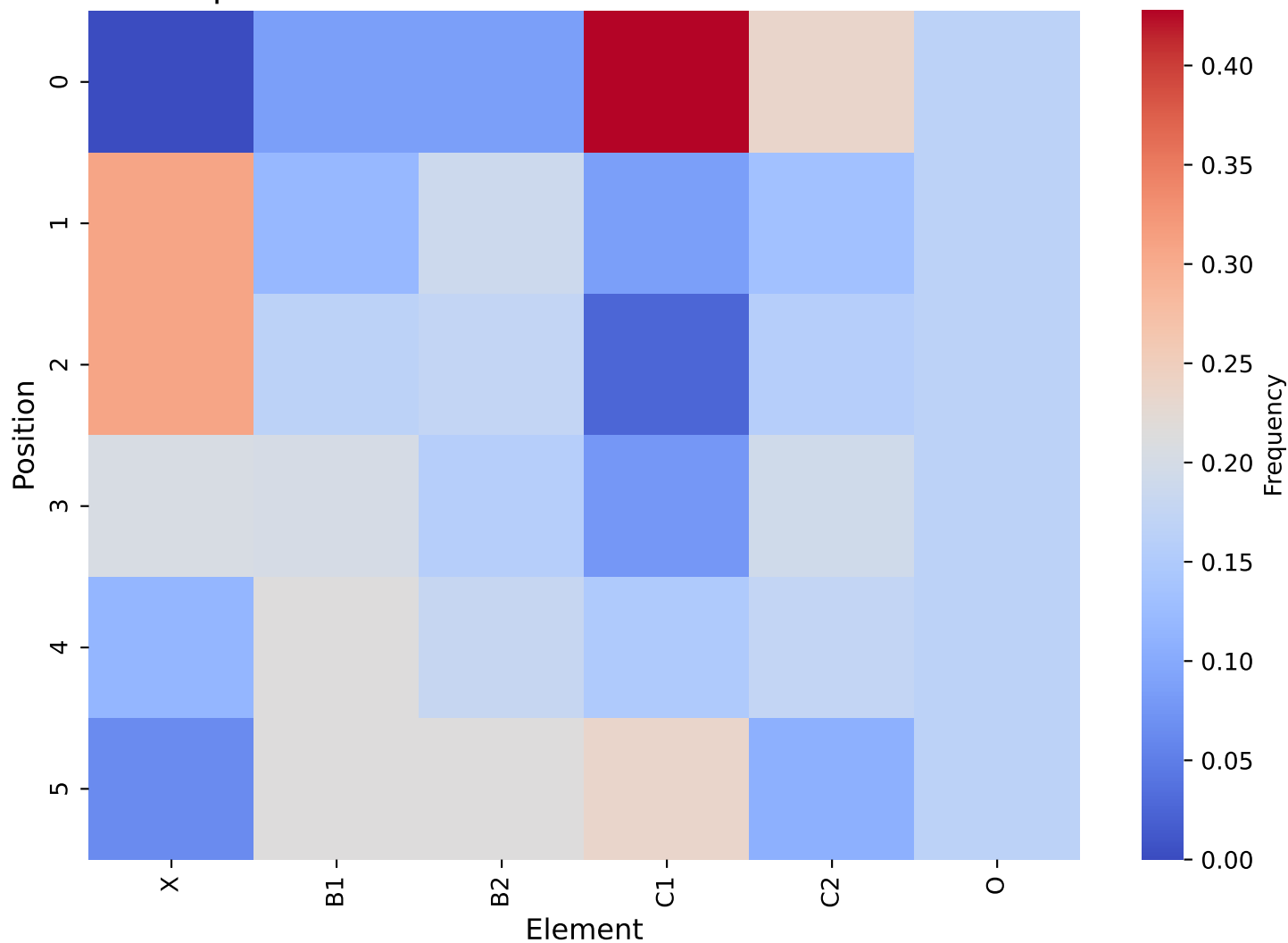
Summary Statistics of Distances

Boxplot illustrating the central tendency and dispersion of distances.

Correlation between Element Positions and Distance

Element Frequencies at Positions for Distance 0.06666666666666667

Element Frequencies at Positions for Distance 0.17777777777776

Statistical Summary of Distances

	Value
Mean	0.104444
Median	0.111111
Standard Deviation	0.034018
Variance	0.001157
Minimum	0.066667
Maximum	0.177778

Shapiro-Wilk Normality Test Results:

Test	Statistic	p-value
Shapiro-Wilk	0.881033	4.737725e-23

This page summarizes key statistical measures of the distance data.

C2, X, B2, B1, C1, 0
C1, B2, B1, C2, X, 0
B2, X, B1, C2, 0, C1
C2, X, 0, B2, B1, C1
C2, B1, X, C1, B2, 0

Permutations with Minimal Distance: 0.06666666666666667

C1, C1, X, C2, B2, 0
C1, C2, B1, X, B2, 0
C1, X, 0, B1, B2, C2
0, C2, X, B2, B1, C1
C1, X, B1, C2, 0, B2
C1, B2, C2, 0, B1, X
C1, C2, B2, 0, X, B1
0, C2, X, C1, B1, B2
B1, X, B2, 0, C2, C1
C1, 0, C2, X, B1, B2
C2, X, 0, B1, C1, B2
C1, B1, 0, C2, X, B2
B2, B1, 0, X, C2, C1
C2, 0, X, B2, C1, B1
C1, 0, B1, C2, X, B2
0, C1, X, B1, B2, C2
C1, X, B1, B2, 0, C2
C1, X, B2, C2, 0, B1
0, C1, B2, C2, X, B1
0, B2, B1, X, C2, C1
C1, X, B1, 0, B2, C2
B2, 0, X, B1, C2, C1
C2, 0, X, B1, B2, C1
B2, B1, X, C2, C1, 0
C2, B2, 0, X, C1, B1
C1, X, B2, B1, 0, C2
B2, 0, B1, X, C2, C1
C1, B2, 0, X, C2, B1
C1, X, C2, B2, B1, 0
C1, C2, X, B2, B1, 0
C2, B2, B1, X, C1, 0
C2, B2, 0, X, B1, C1
C1, B2, 0, B1, X, C2
C2, B2, B1, 0, X, C1
C1, 0, B1, X, C2, B2
C1, 0, C2, B2, X, B1
0, B2, X, C2, C1, B1
C1, C2, B2, B1, 0, X
C1, C2, B2, 0, B1, X
C1, 0, B2, X, C2, B1
C1, B2, C2, B1, 0, X
C1, B1, X, 0, B2, C2
0, C2, B1, X, B2, C1
0, B2, X, C2, B1, C1
0, C1, B2, B1, X, C2
0, C1, C2, X, B2, B1
C2, X, B2, B1, 0, C1
C1, X, B1, C2, B2, 0
C1, X, 0, C2, B1, B2
0, C2, X, B1, C1, B2
C1, B2, C2, B1, X, 0

Permutations resulting in the minimal total distance among trees.

C1, B2, 0, C2, X, B1
C2, B2, X, 0, B1, C1
C2, 0, X, C1, B2, B1

Permutations with Maximal Distance: 0.17777777777777776

```
X, O, C1, C2, B2, B1
X, O, C1, B2, C2, B1
O, X, B2, C1, B1, C2
X, C1, O, B2, B1, C2
X, C1, B2, O, C2, B1
X, O, B2, C1, C2, B1
O, X, C1, C2, B2, B1
X, B2, C1, B1, C2, O
X, B2, C1, B1, O, C2
X, B2, B1, O, C1, C2
X, B2, O, C1, B1, C2
X, B2, O, B1, C1, C2
X, B2, O, C1, C2, B1
X, B2, C1, C2, B1, O
X, C1, C2, B2, O, B1
X, B2, B1, C1, O, C2
X, B2, C1, O, B1, C2
X, B2, C1, O, C2, B1
O, X, B2, C1, C2, B1
X, C1, O, B2, C2, B1
X, C1, B2, C2, B1, O
X, C1, O, C2, B2, B1
O, X, C1, B2, B1, C2
X, C1, B2, C2, O, B1
X, B2, B1, C1, C2, O
X, C1, C2, O, B2, B1
X, C1, B2, B1, C2, O
X, O, B2, B1, C1, C2
X, O, C1, B2, B1, C2
X, C1, B2, O, B1, C2
X, O, B2, C1, B1, C2
X, C1, B2, B1, O, C2
X, B2, C1, C2, O, B1
X, C1, C2, B2, B1, O
O, X, B2, B1, C1, C2
O, X, C1, B2, C2, B1
```

Permutations resulting in the maximal total distance among trees.