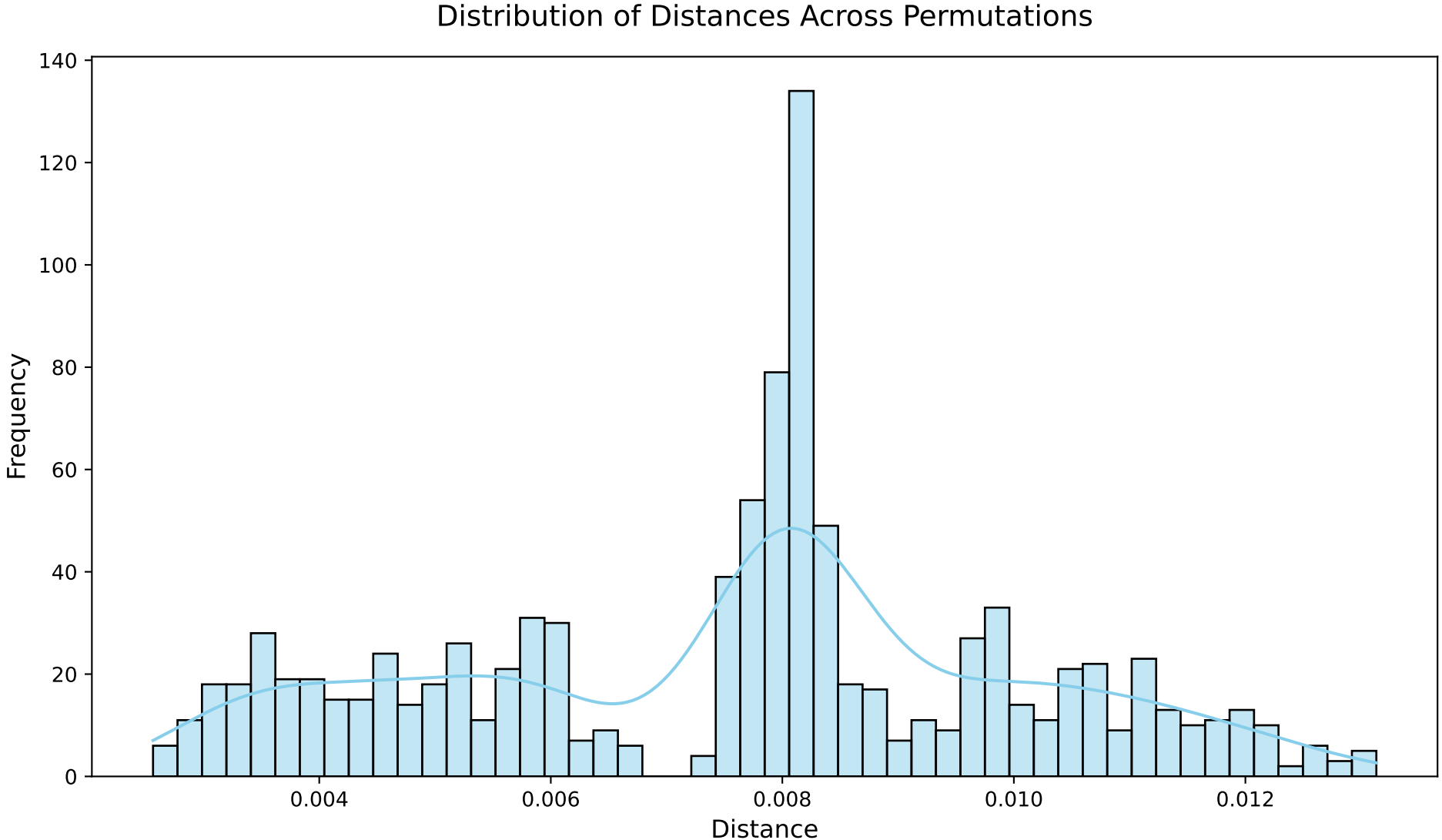
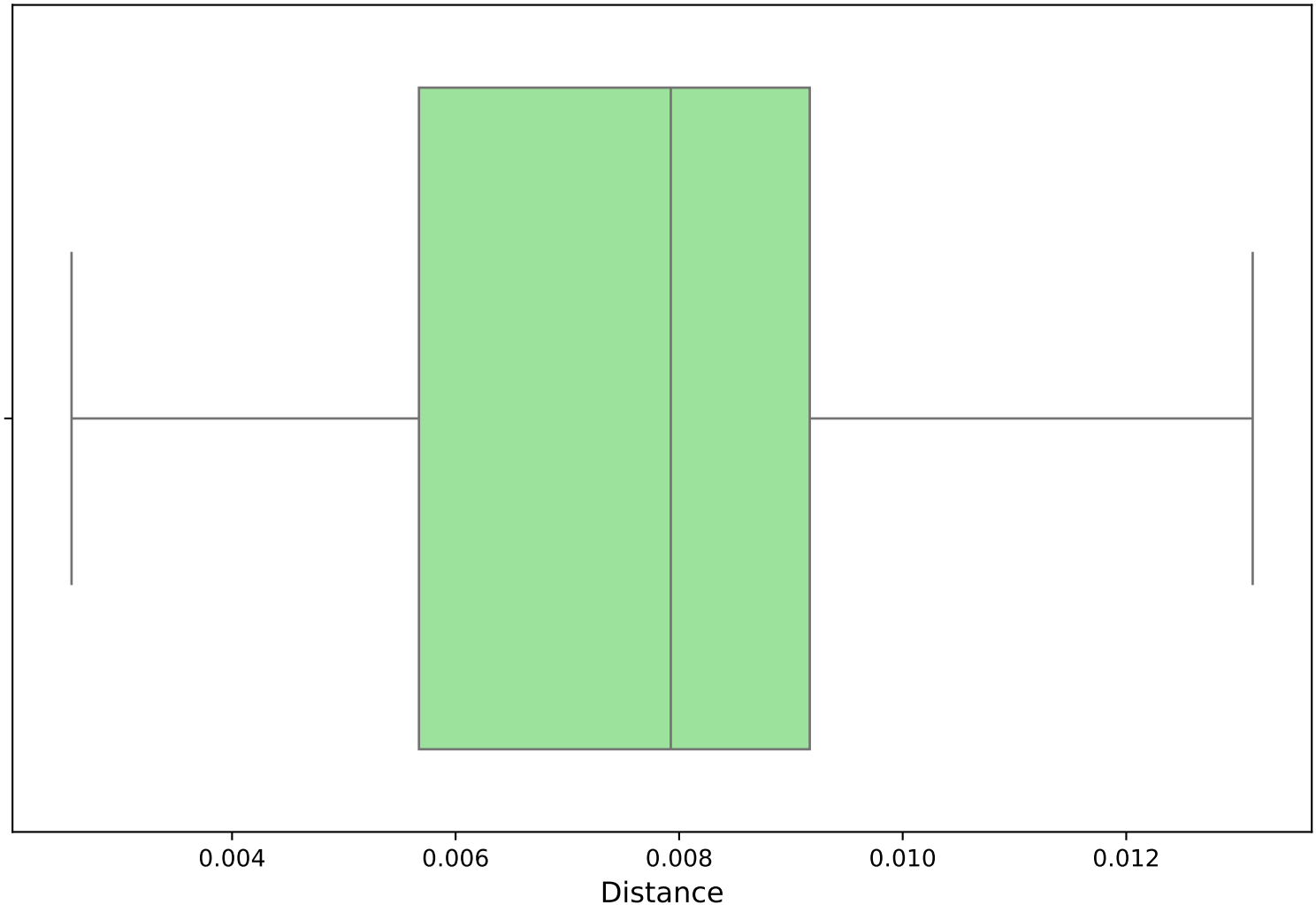
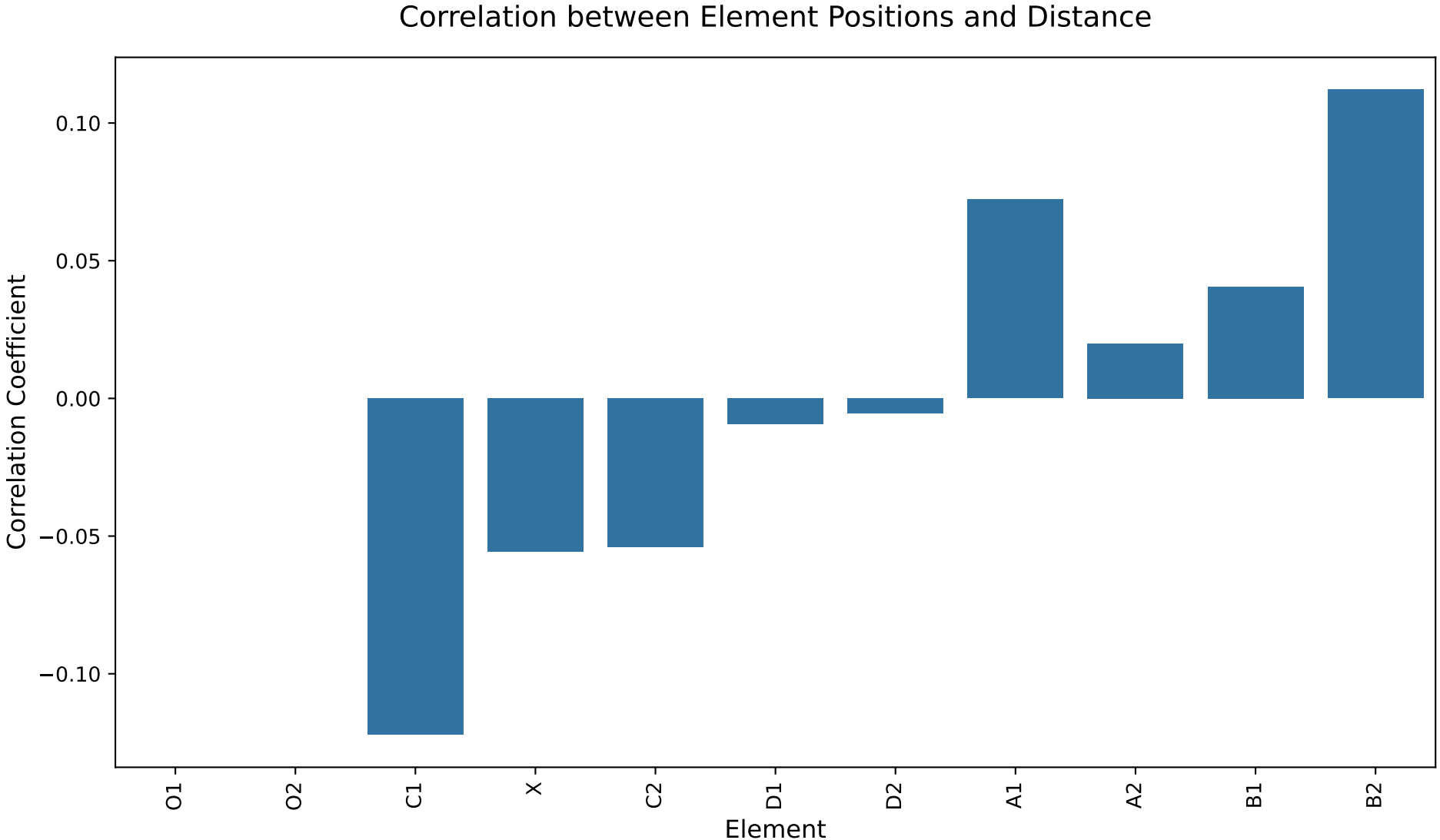
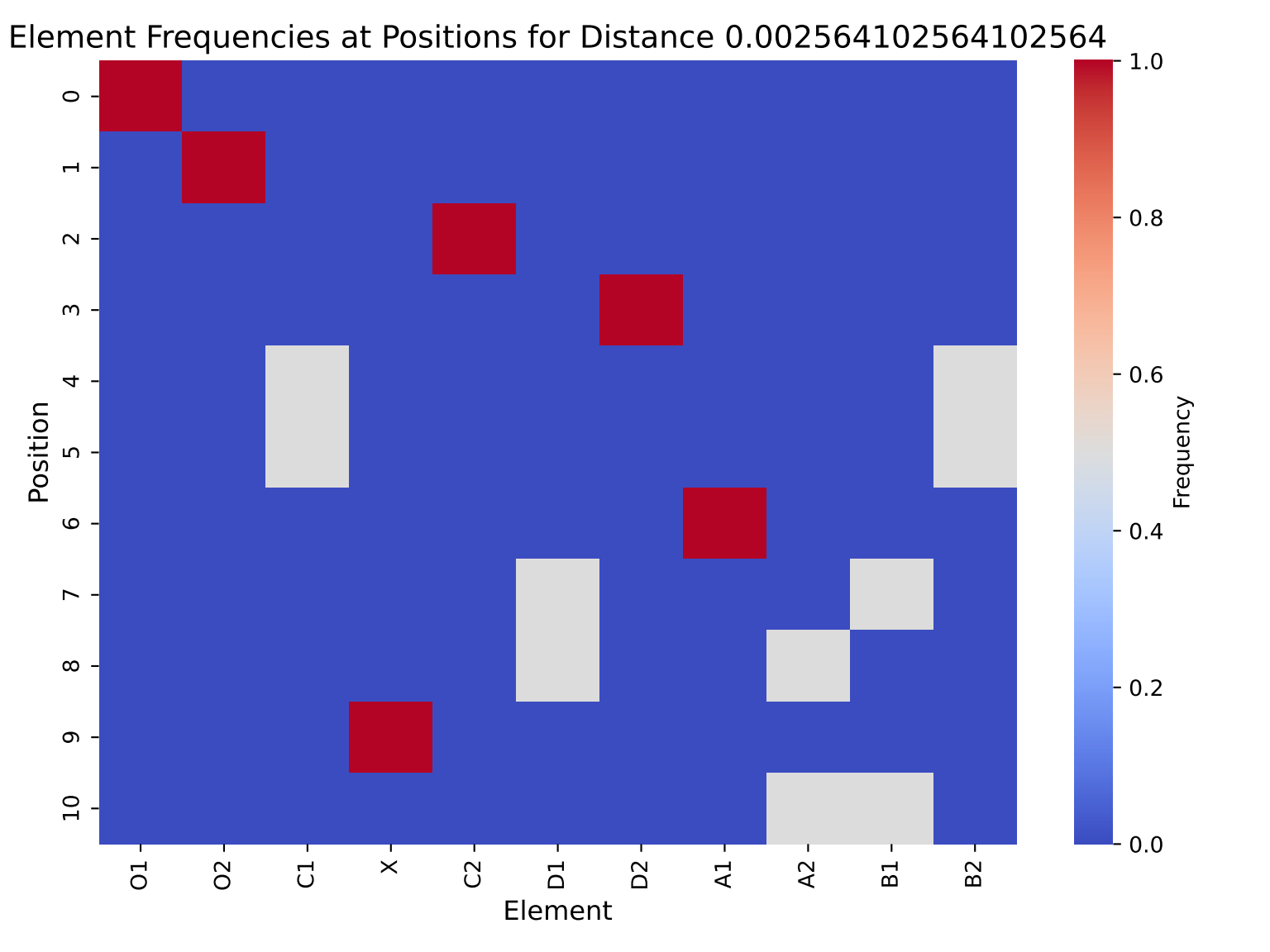


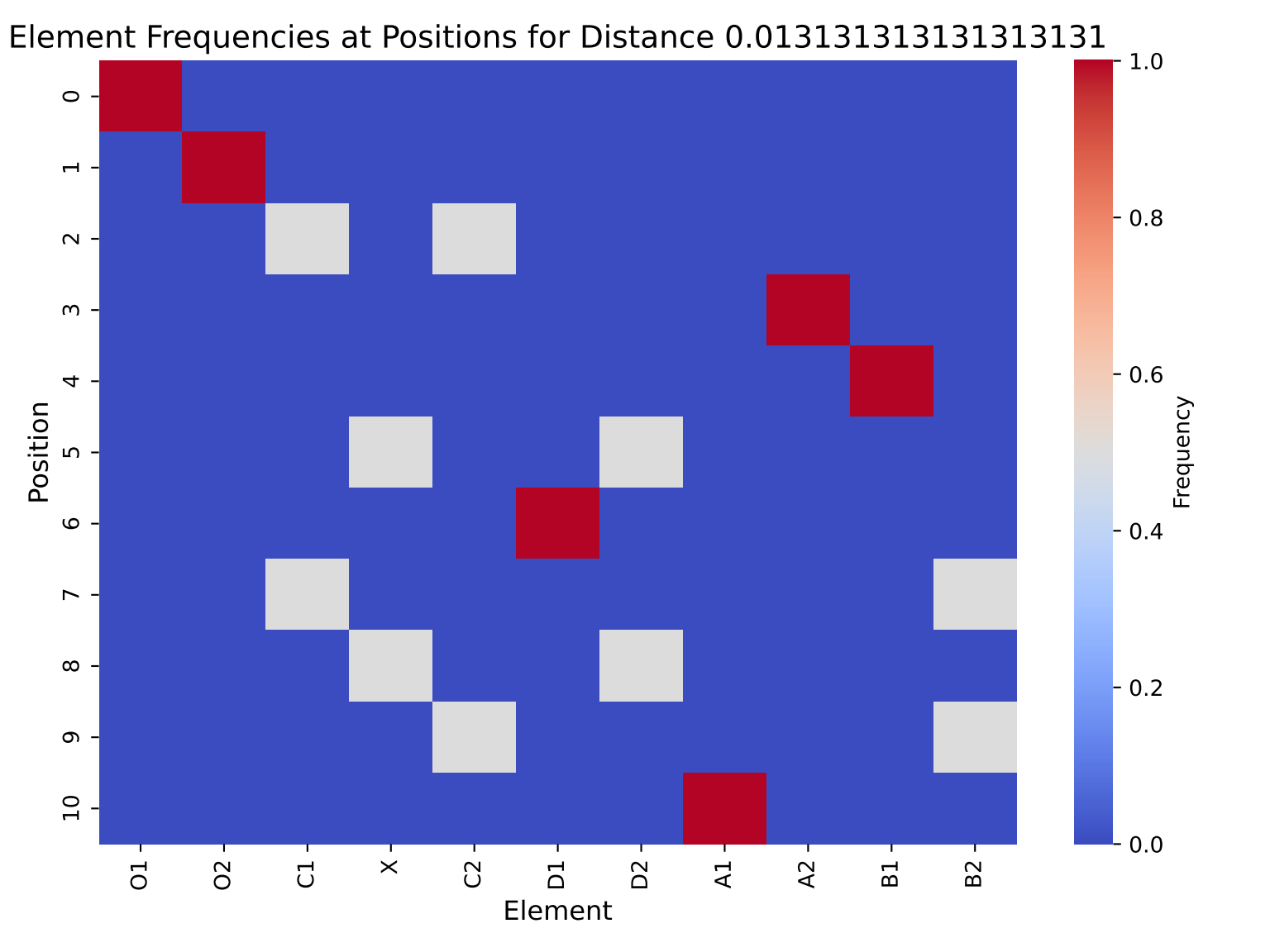
Histogram showing how distances vary across all permutations.



Boxplot illustrating the central tendency and dispersion of distances.


Correlation between Element Positions and Distance
Correlation Coefficient
0.10
0.05
0.00
−0.05
−0.10
O1
O2
C1
X
C2
D1
D2
A1
A2
B1
B2
Element


Element Frequencies at Positions for Distance 0.0025641025641025641
Position
0
1
2
3
4
5
6
7
8
9
10
Element
O1
O2
C1
X
C2
D1
D2
A1
A2
B1
B2
Frequency
1.0
0.8
0.6
0.4
0.2
0.0


Element Frequencies at Positions for Distance 0.01313131313131313
Position
0
1
2
3
4
5
6
7
8
9
10
Element
O1
O2
C1
X
C2
D1
D2
A1
A2
B1
B2
Frequency
1.0
0.8
0.6
0.4
0.2
0.0

Statistical Summary of Distances

	Value
Mean	0.007566
Median	0.007925
Standard Deviation	0.002486
Variance	0.000006
Minimum	0.002564
Maximum	0.013131

Shapiro-Wilk Normality Test Results:

Test	Statistic	p-value
Shapiro-Wilk	0.965011	9.136470e-15

This page summarizes key statistical measures of the distance data.

Permutations with Minimal Distance: 0.0025641025641025564

O1, O2, C2, D2, B2, C1, A1, B1, D1, X, A2
O1, O2, C2, D2, C1, B2, A1, D1, A2, X, B1

Permutations resulting in the minimal total distance among trees.

Permutations with Maximal Distance: 0.01313131313131313131

O1, O2, C2, A2, B1, X, D1, C1, D2, B2, A1
O1, O2, C1, A2, B1, D2, D1, B2, X, C2, A1

Permutations resulting in the maximal total distance among trees.