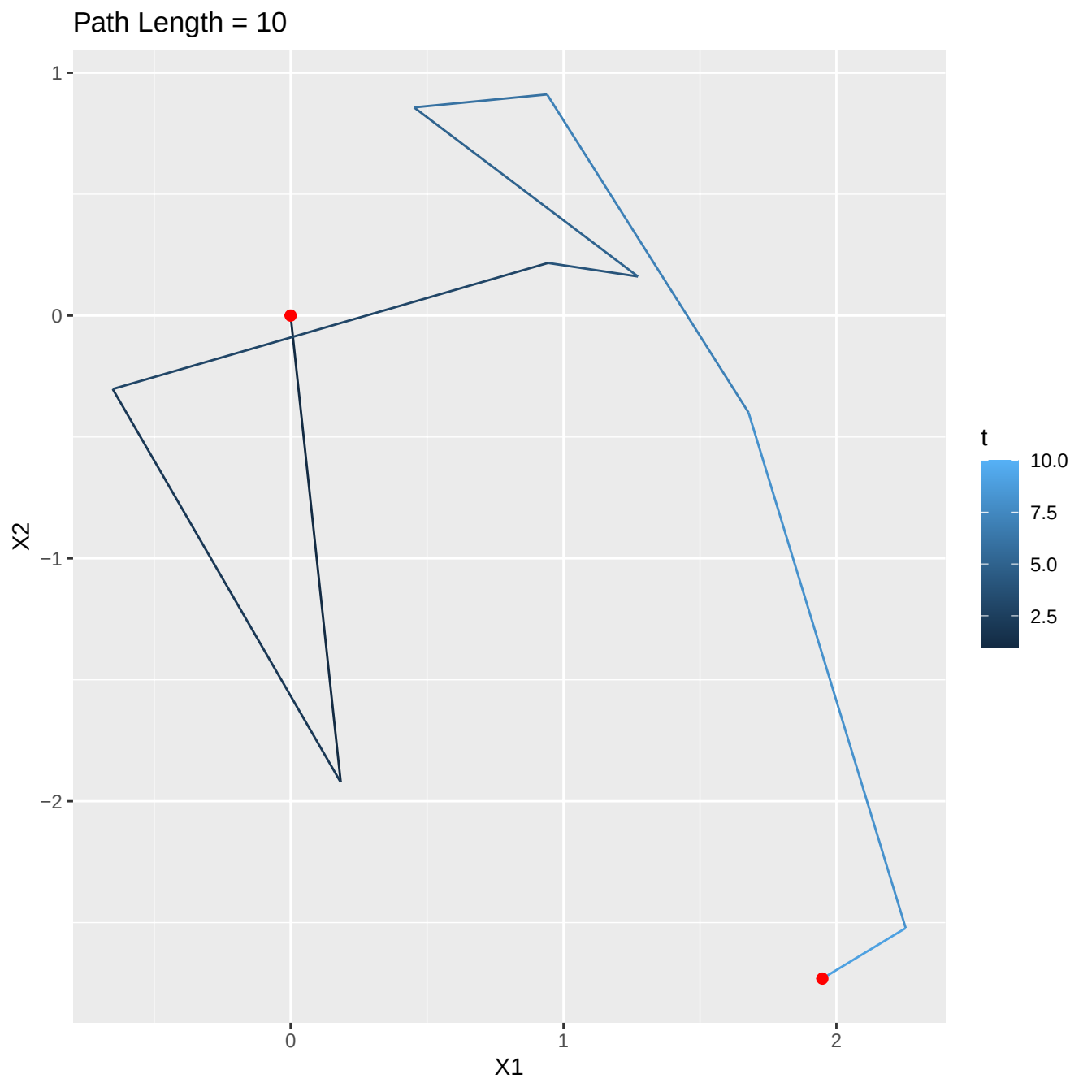
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X1
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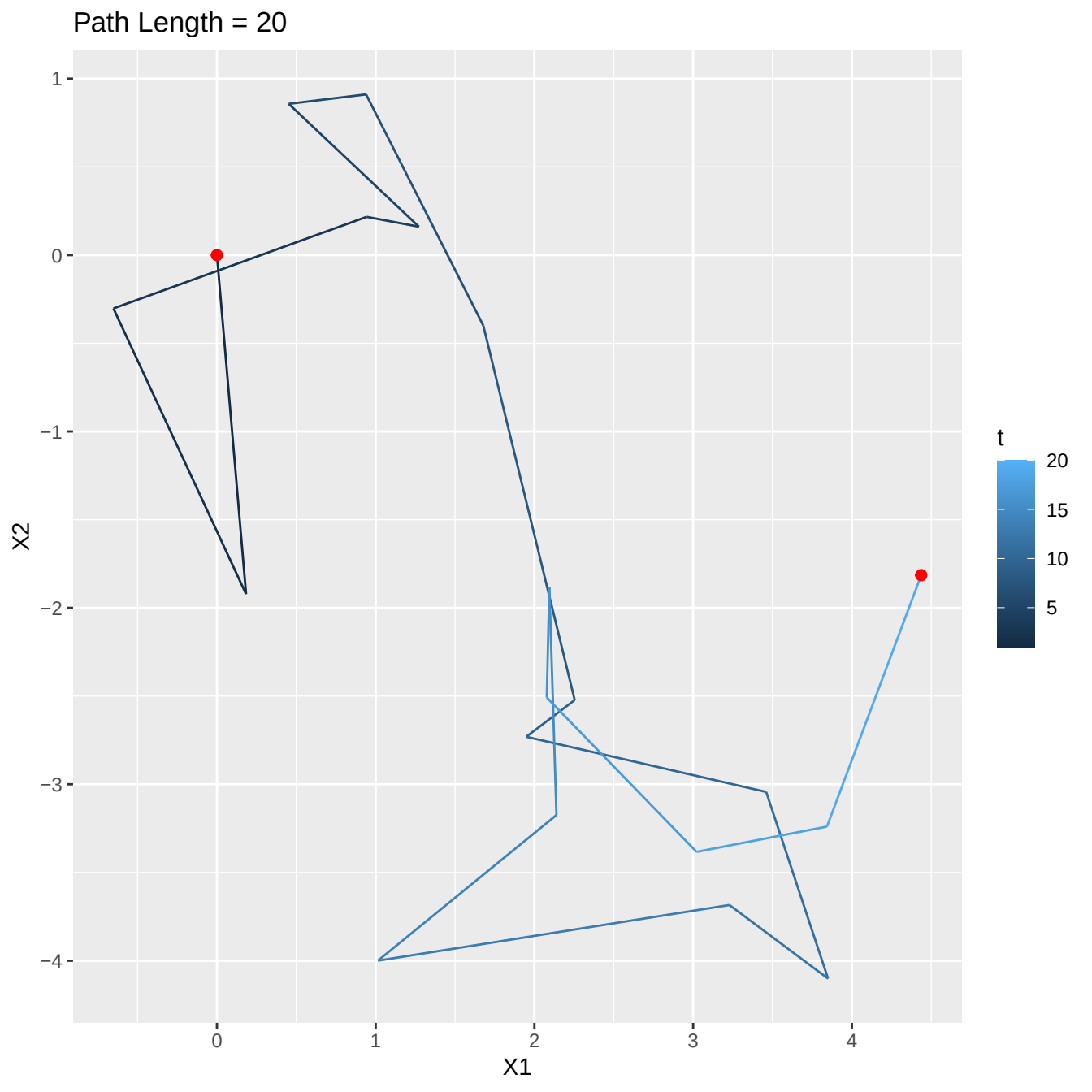
5.0
2.5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1
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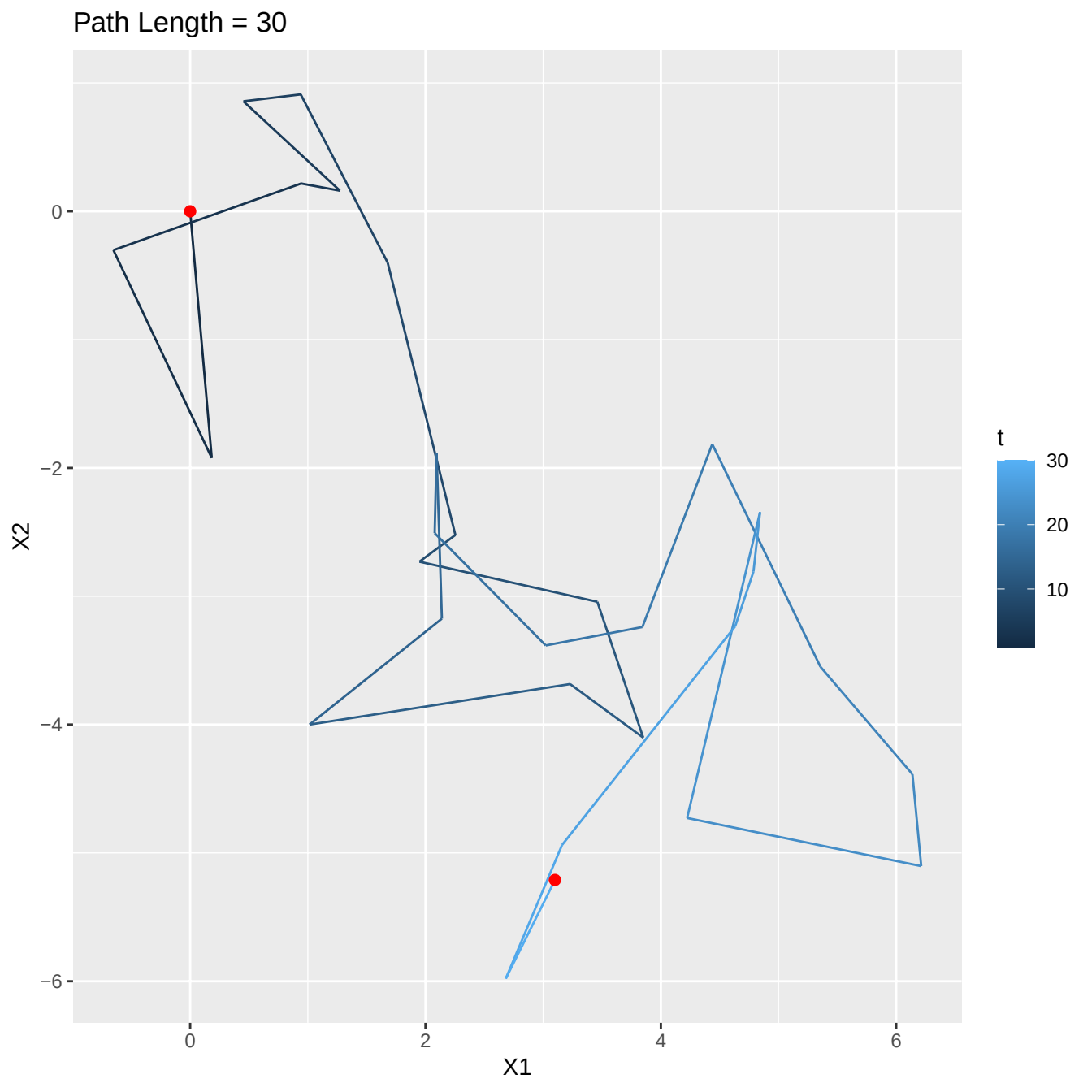
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X1
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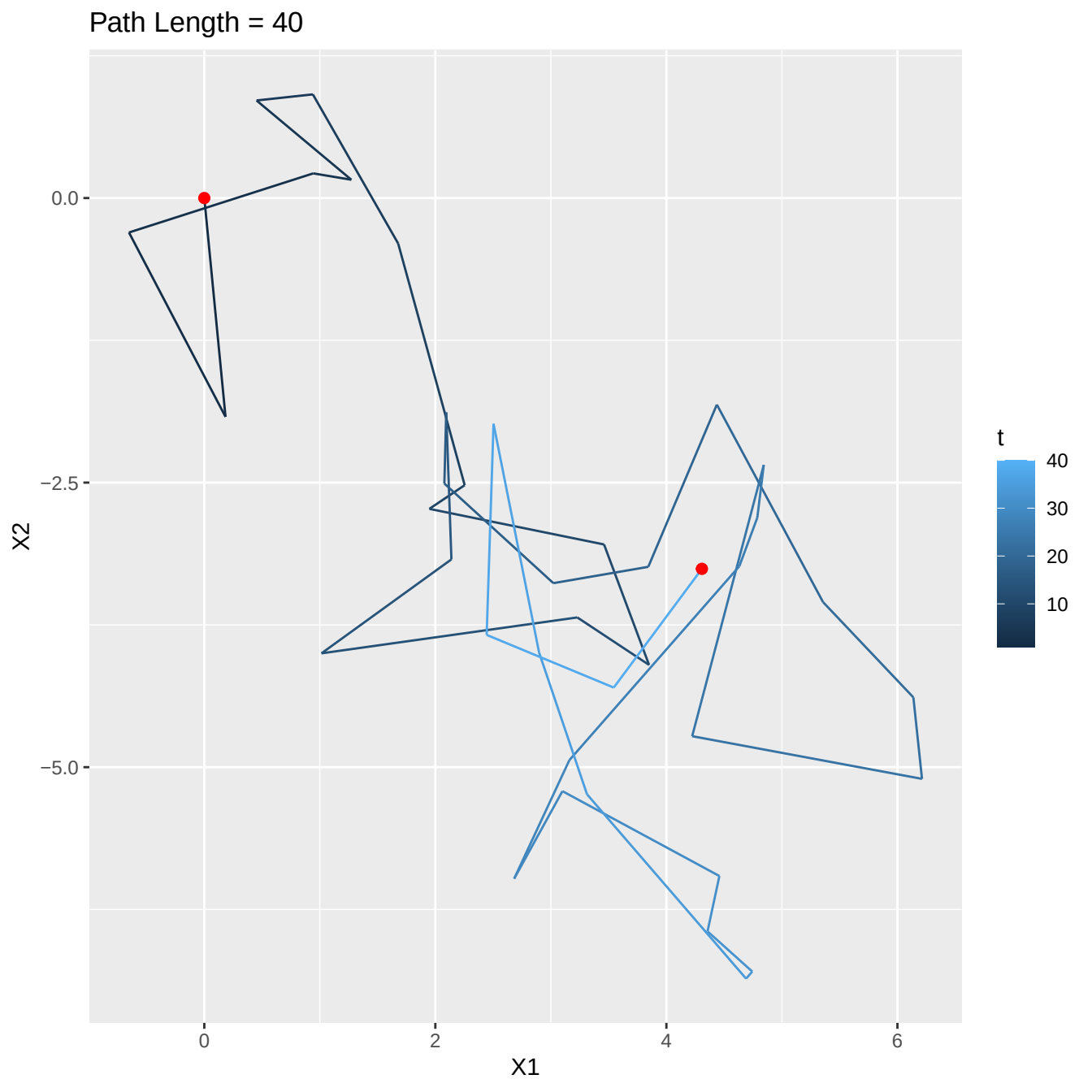
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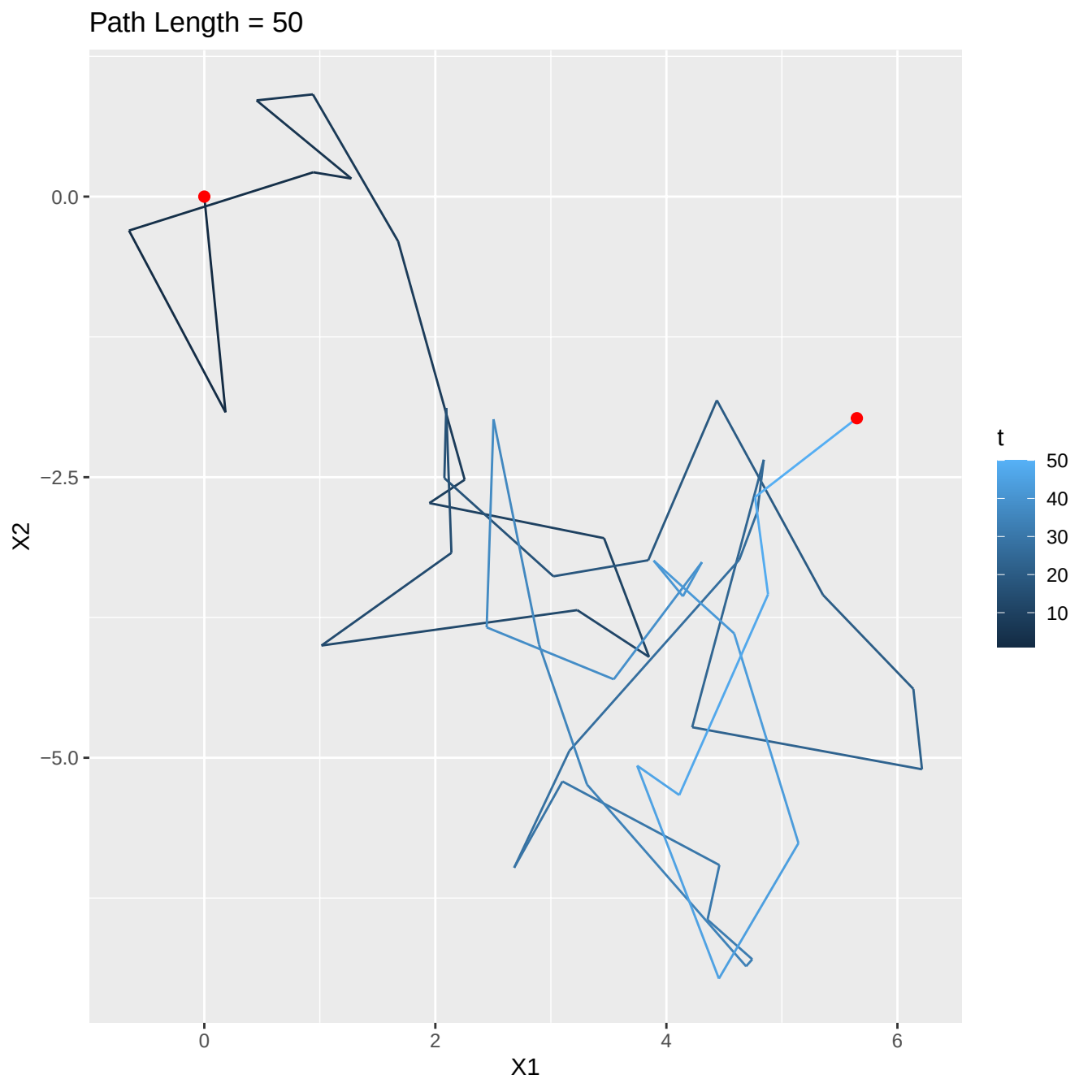
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X1
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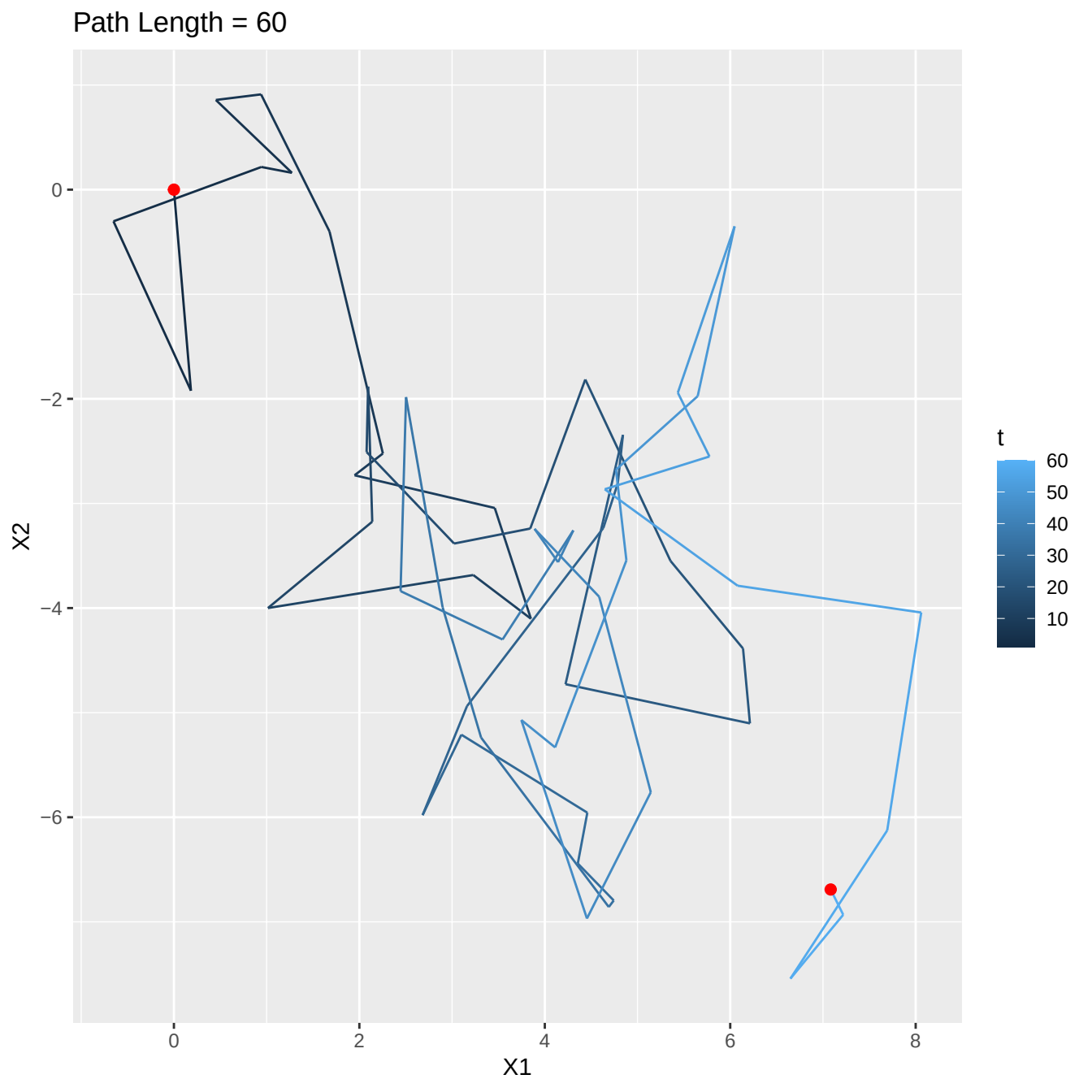
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X1
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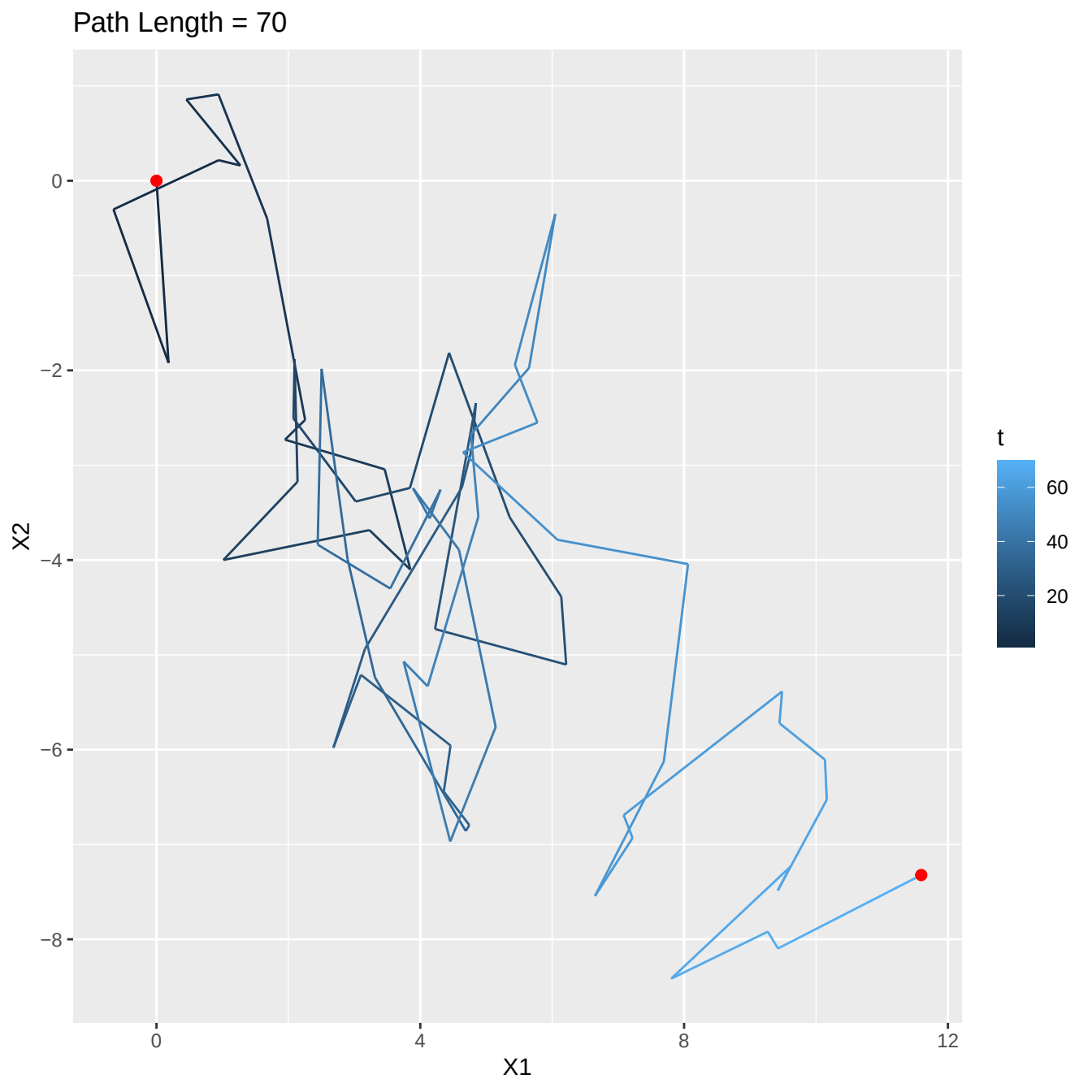
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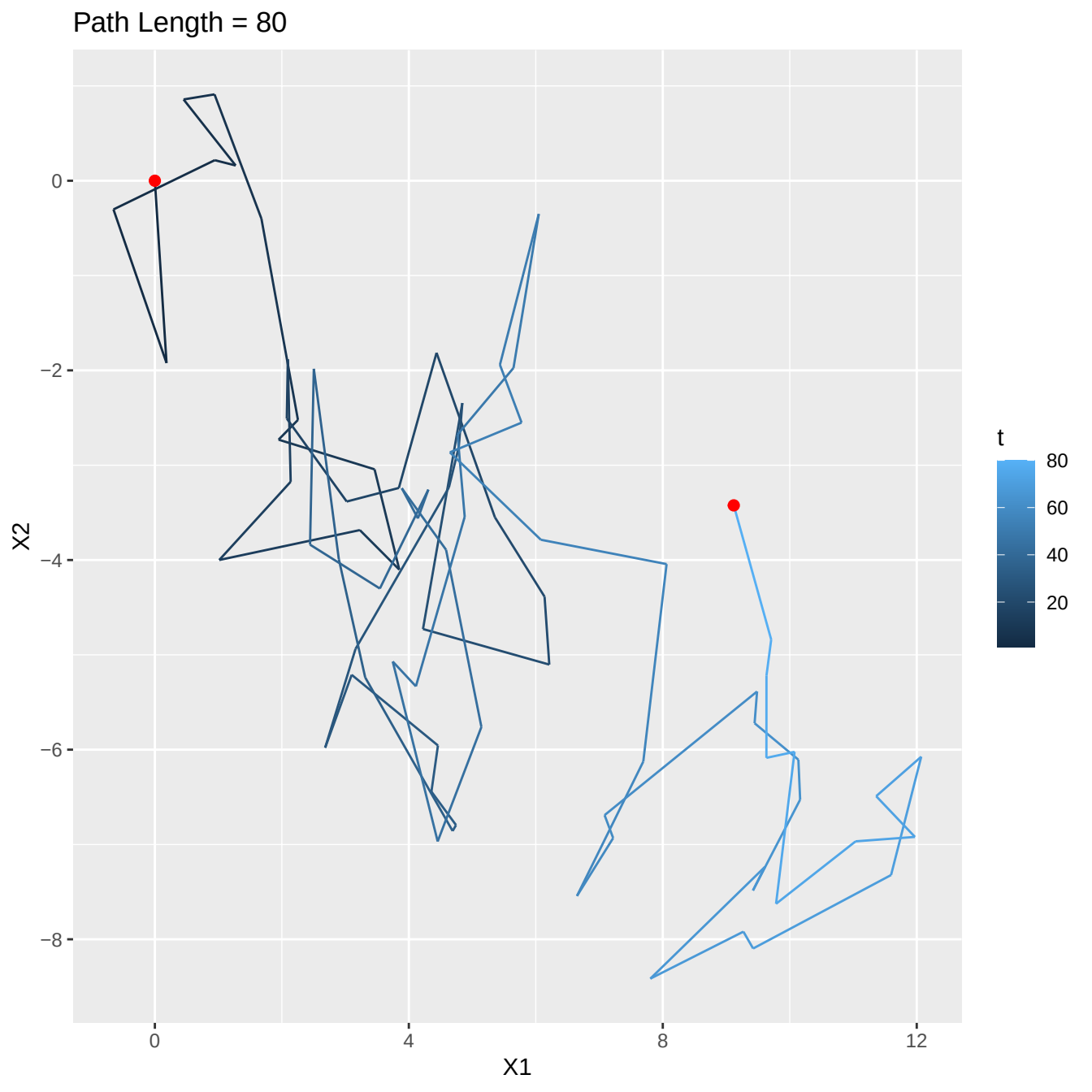
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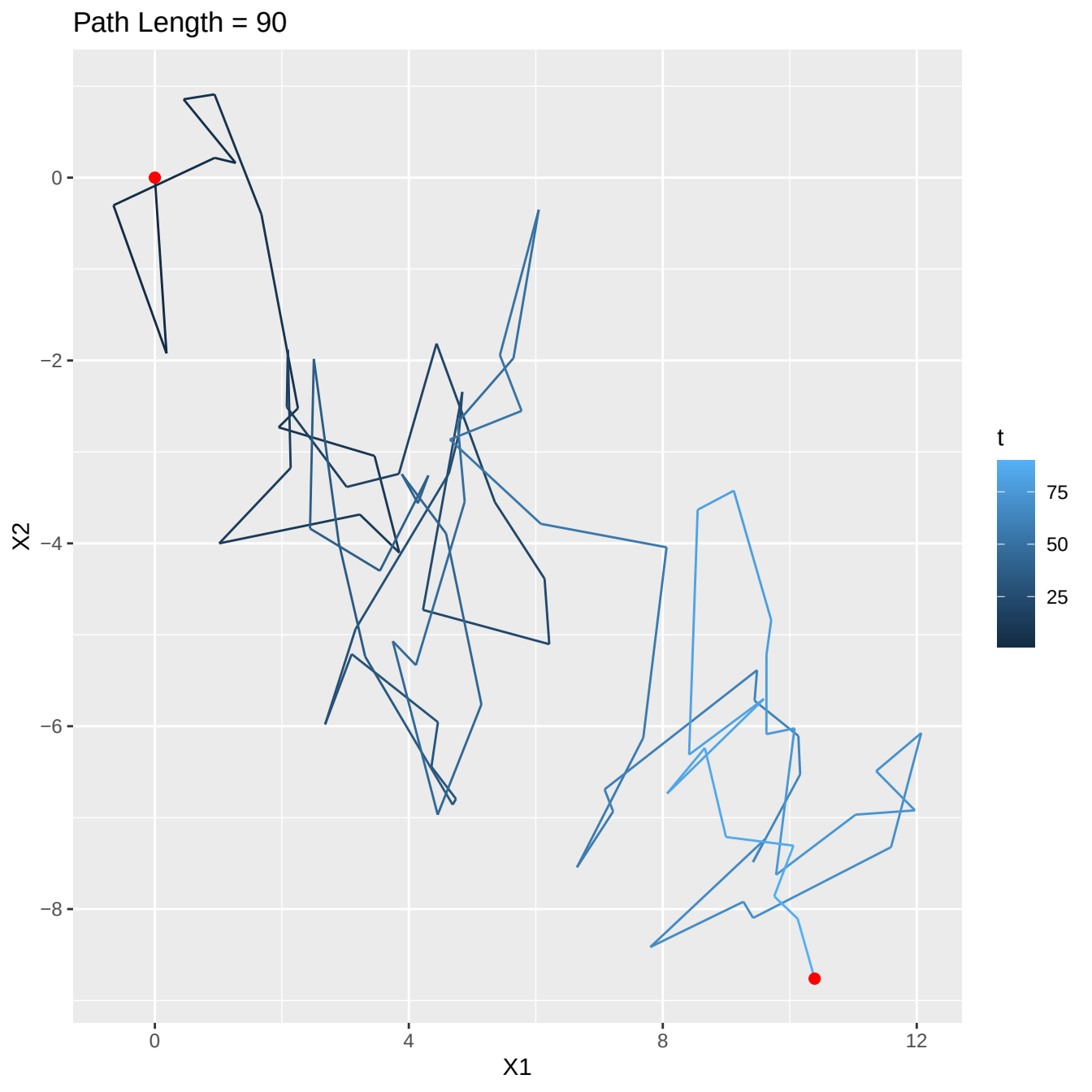
20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12
X1
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75
50
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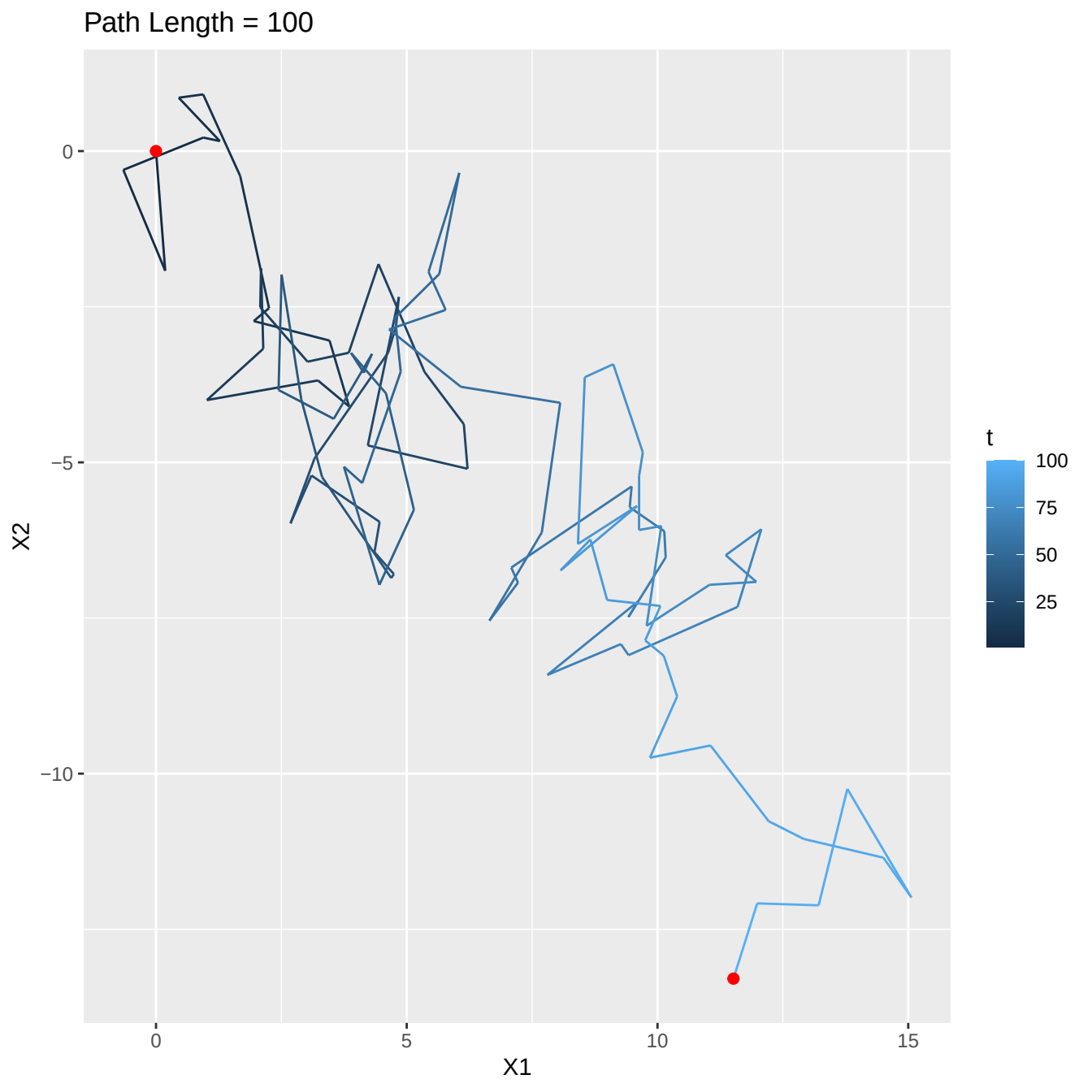
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X1
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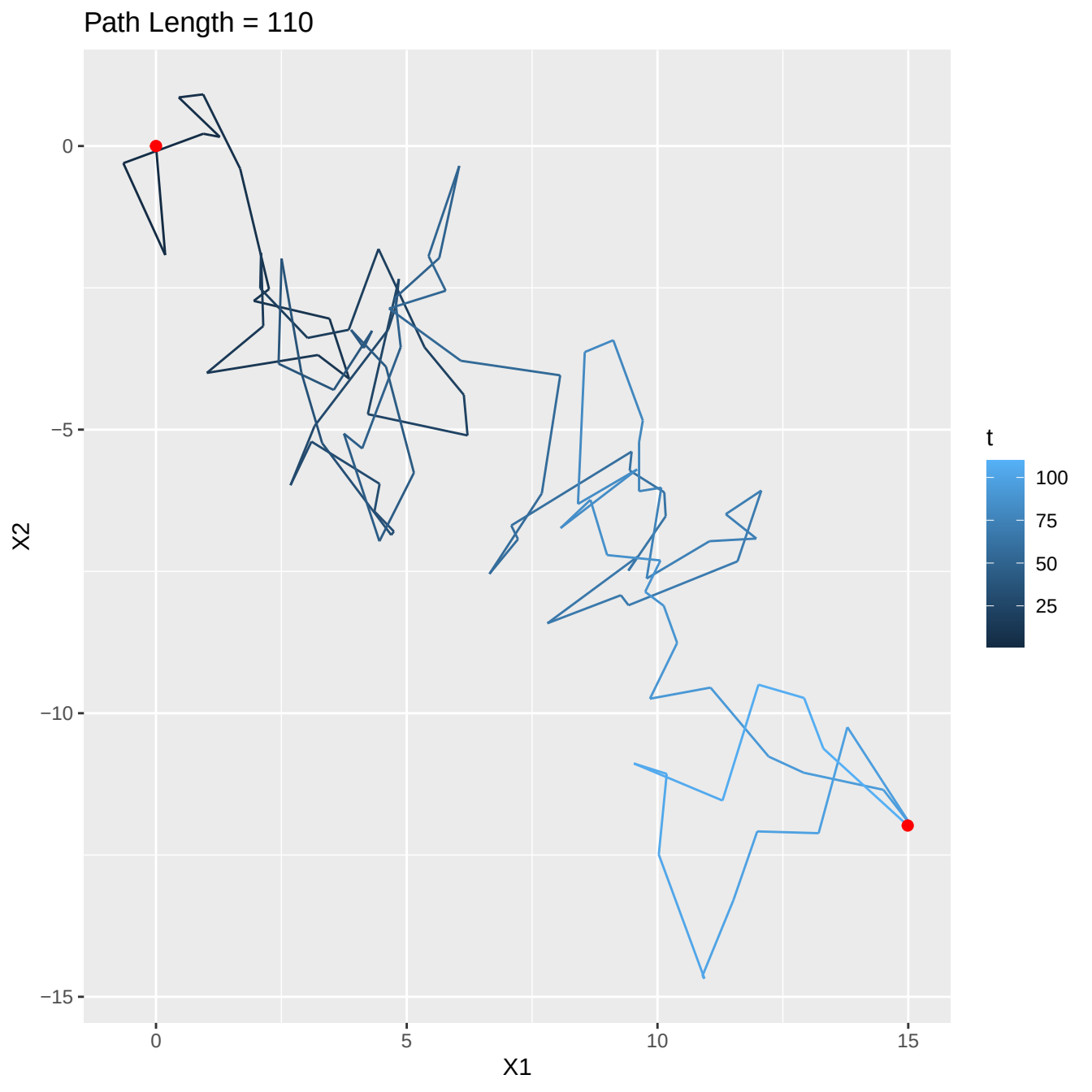
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100
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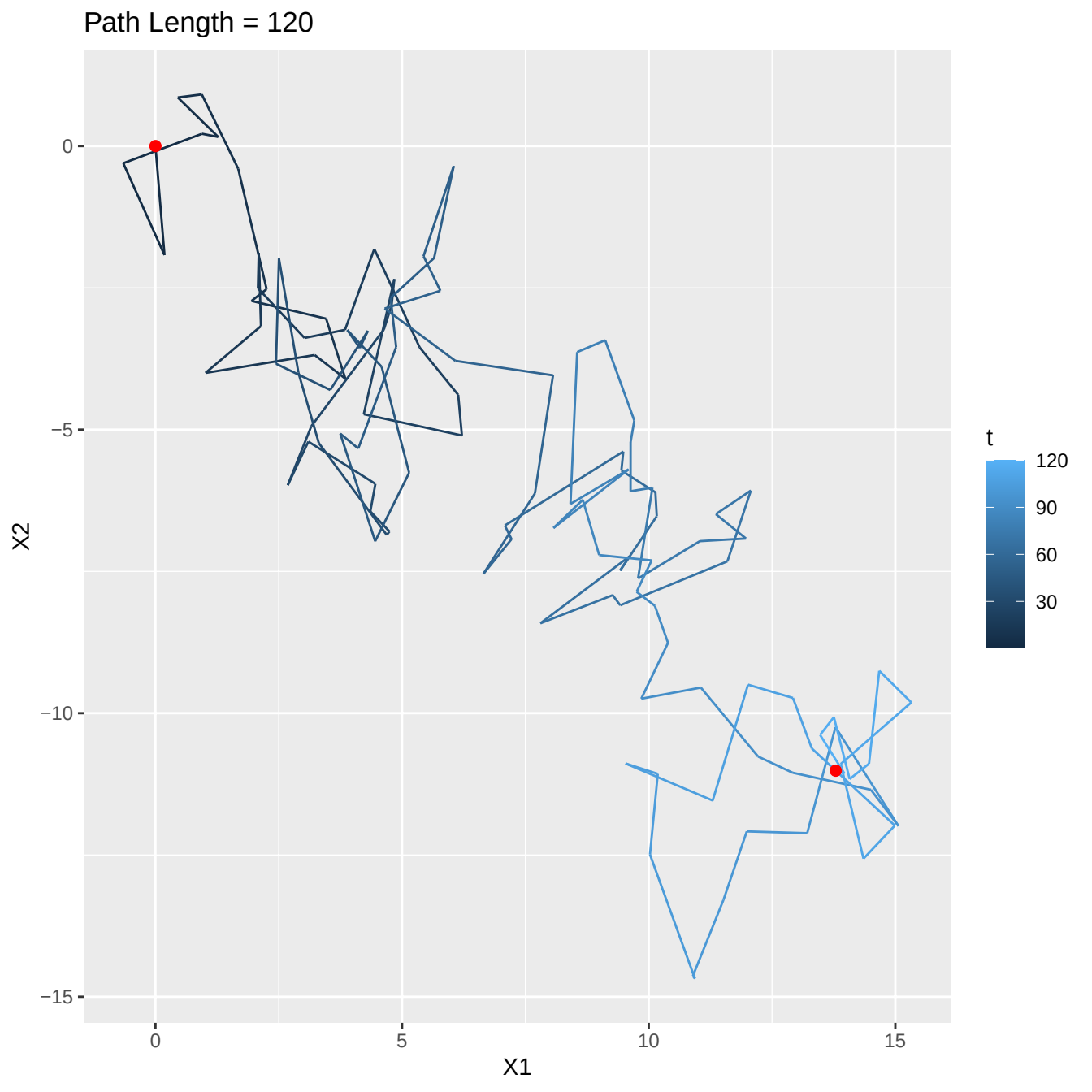
25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10
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X1
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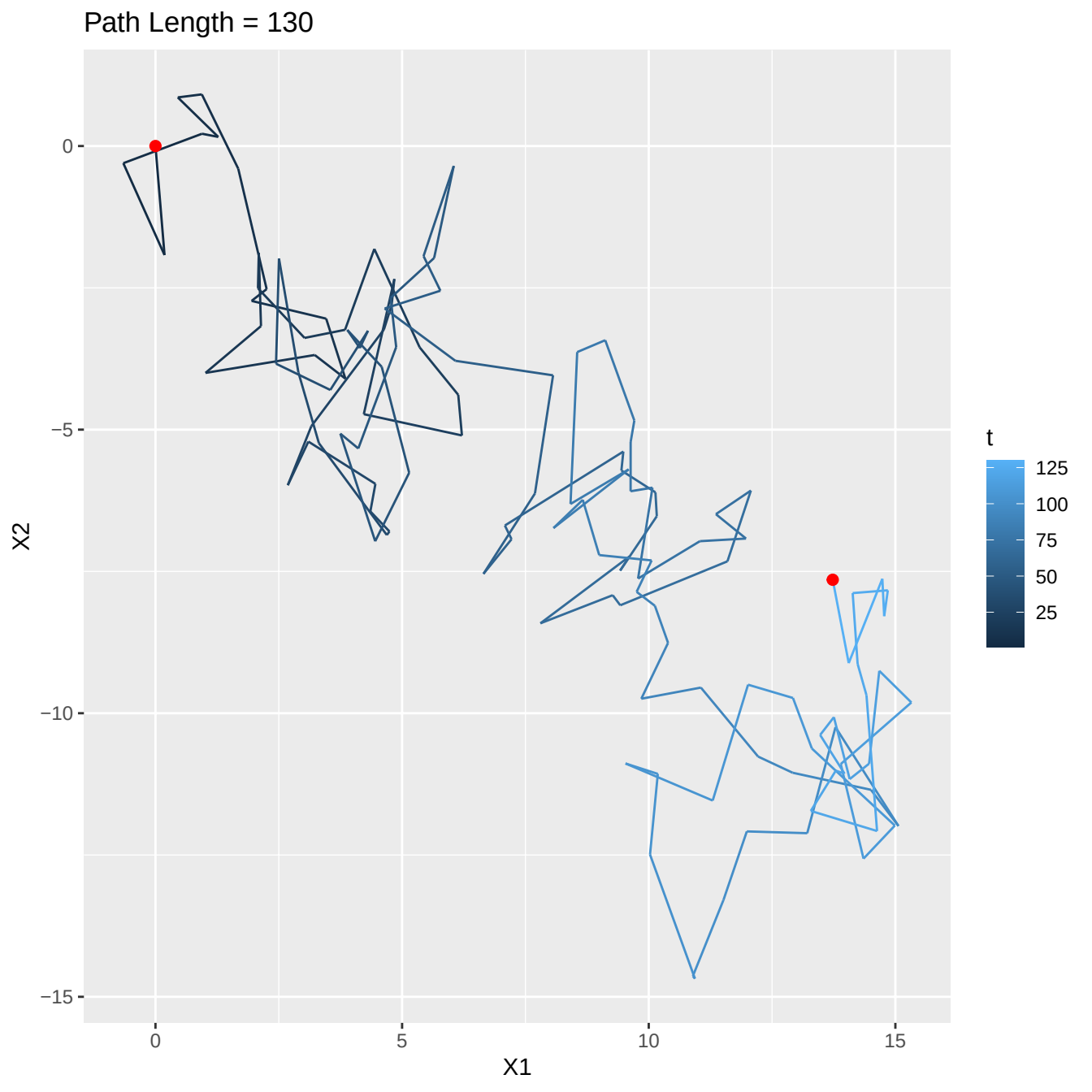
120
90
60
30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10
15
X1
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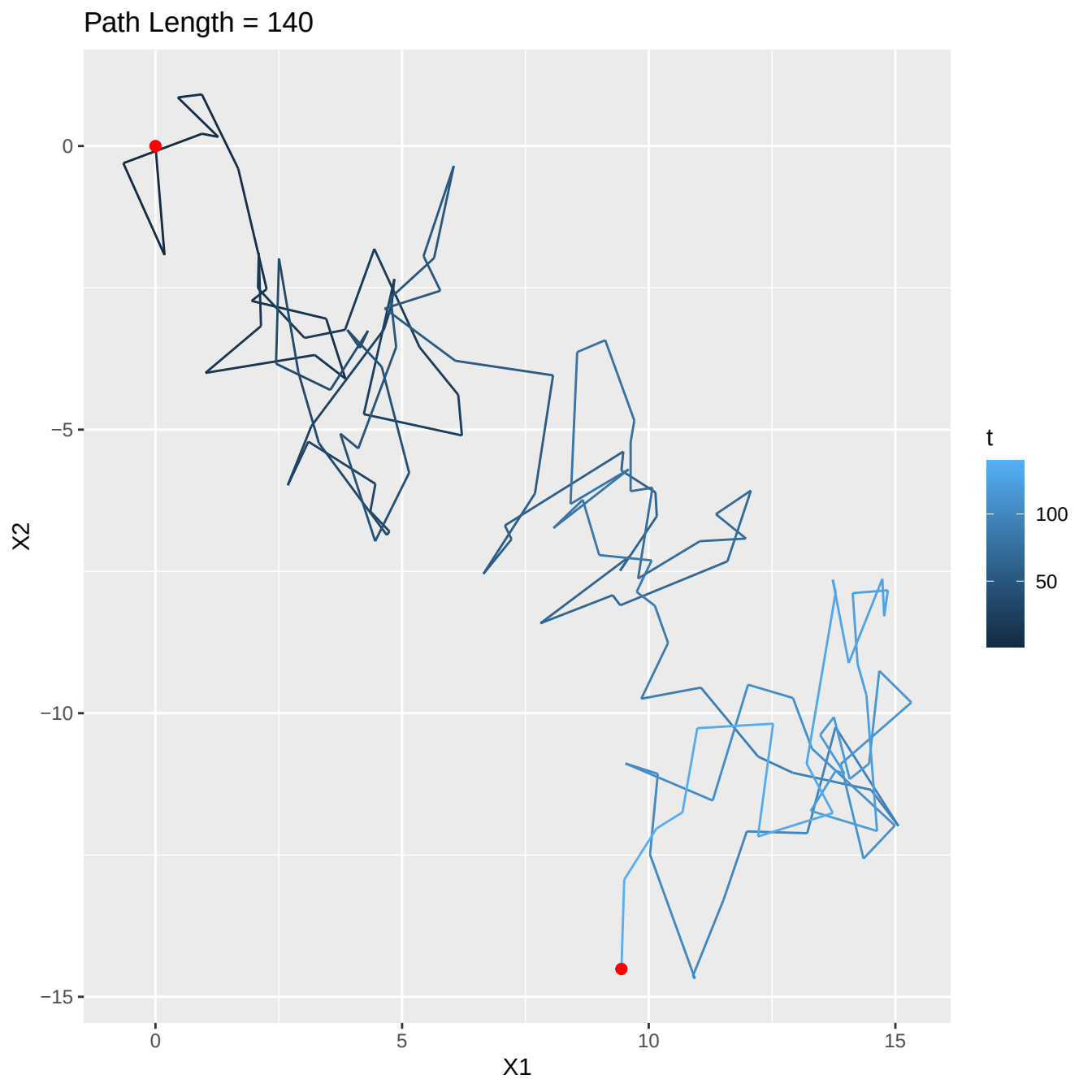
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X1
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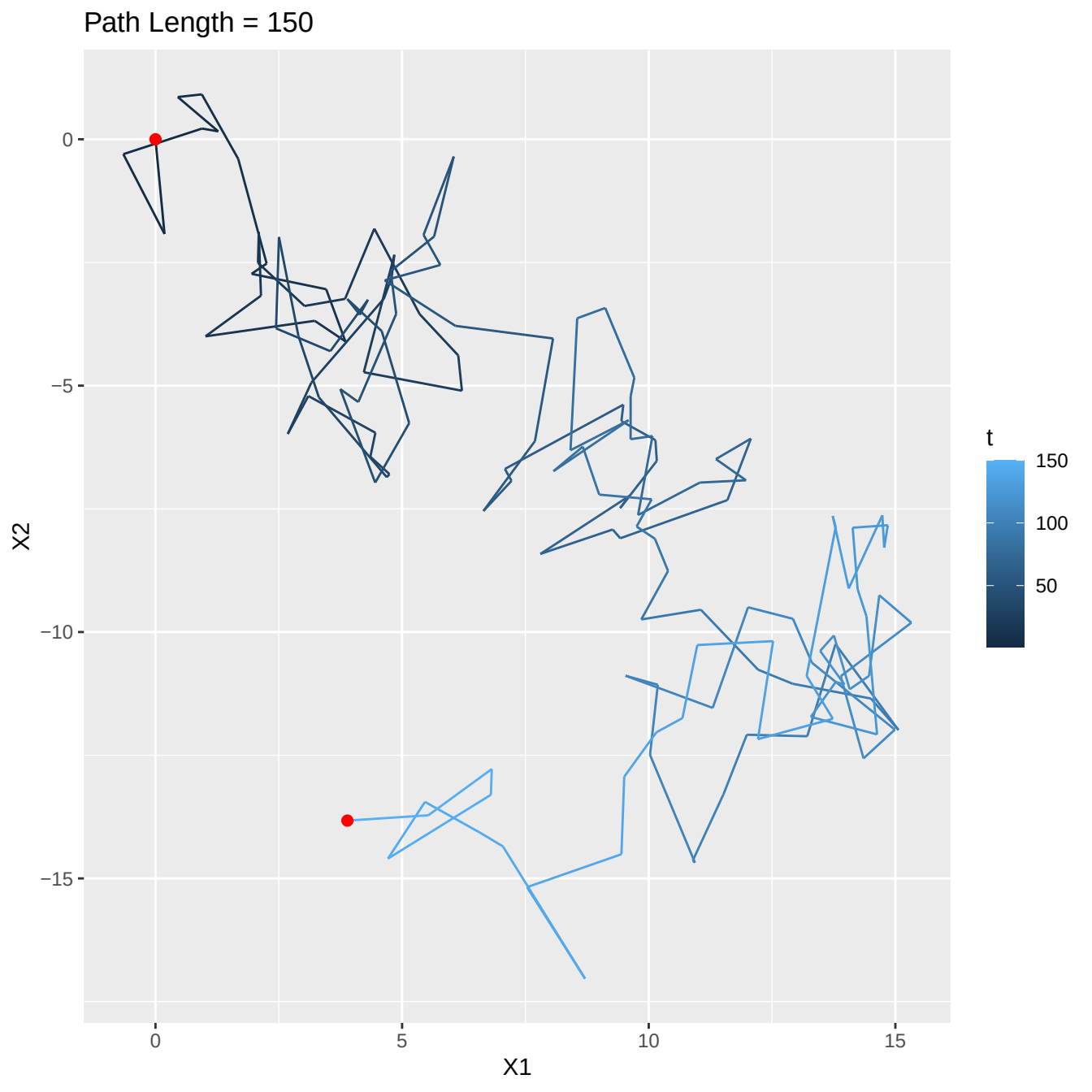
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X1
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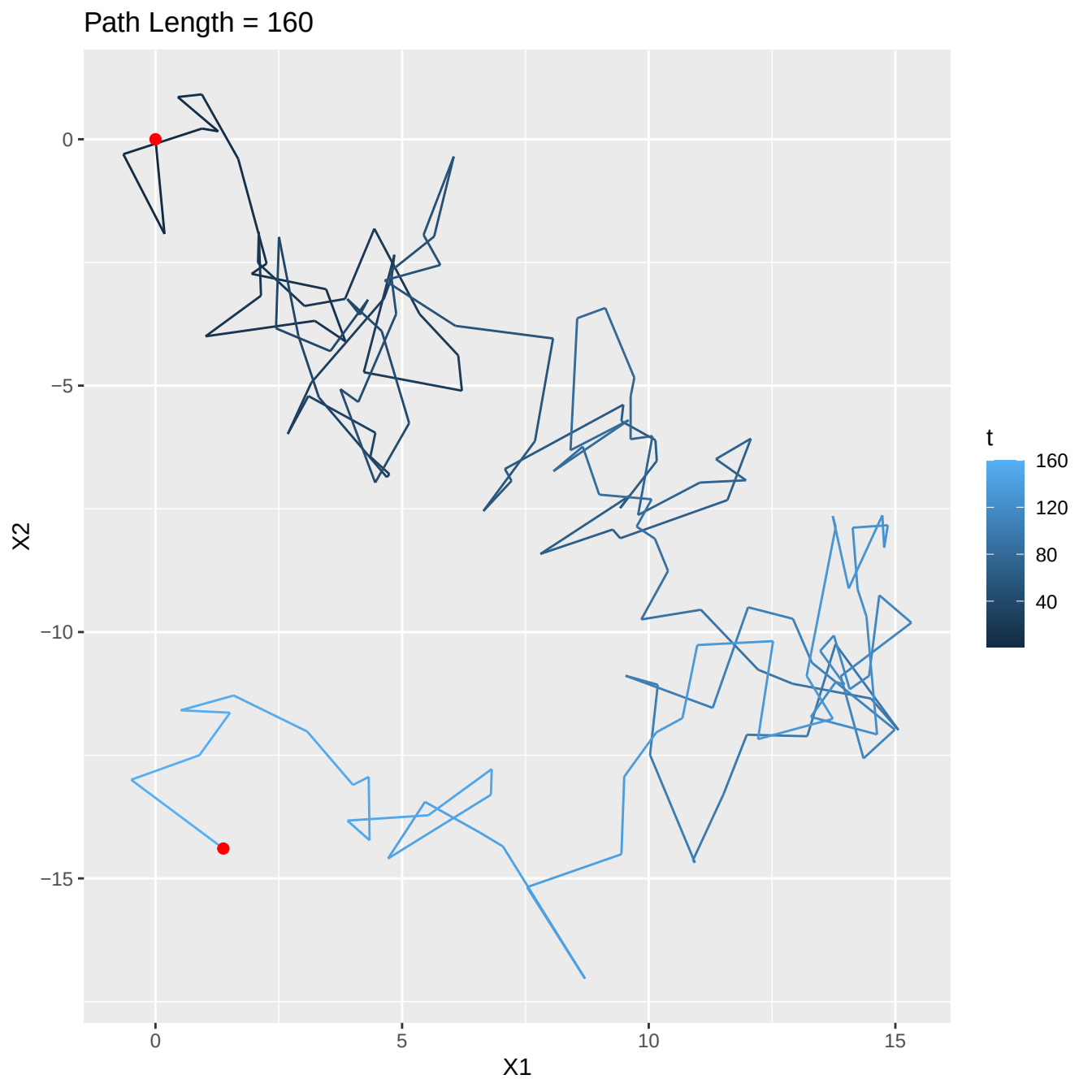
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X1
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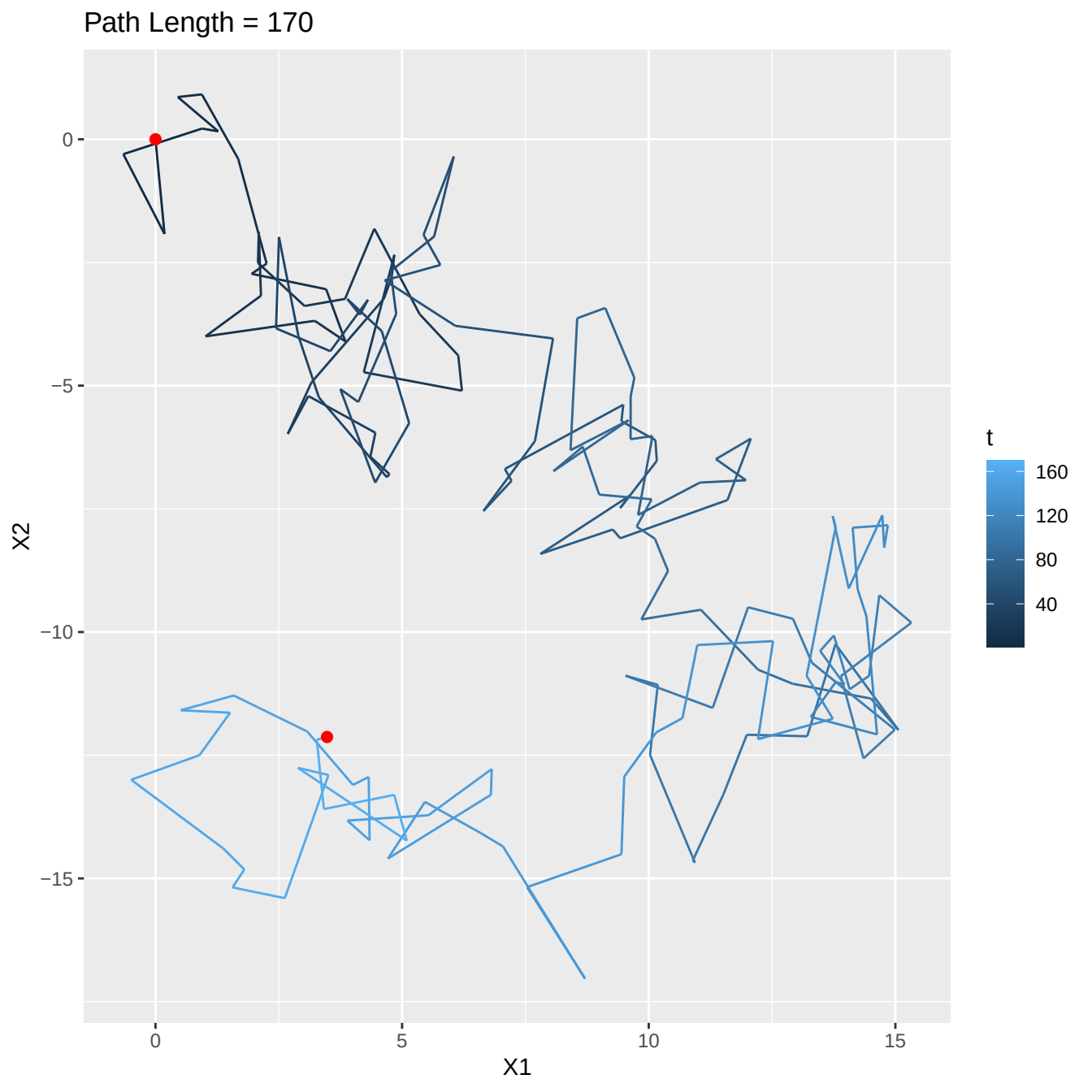
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X1
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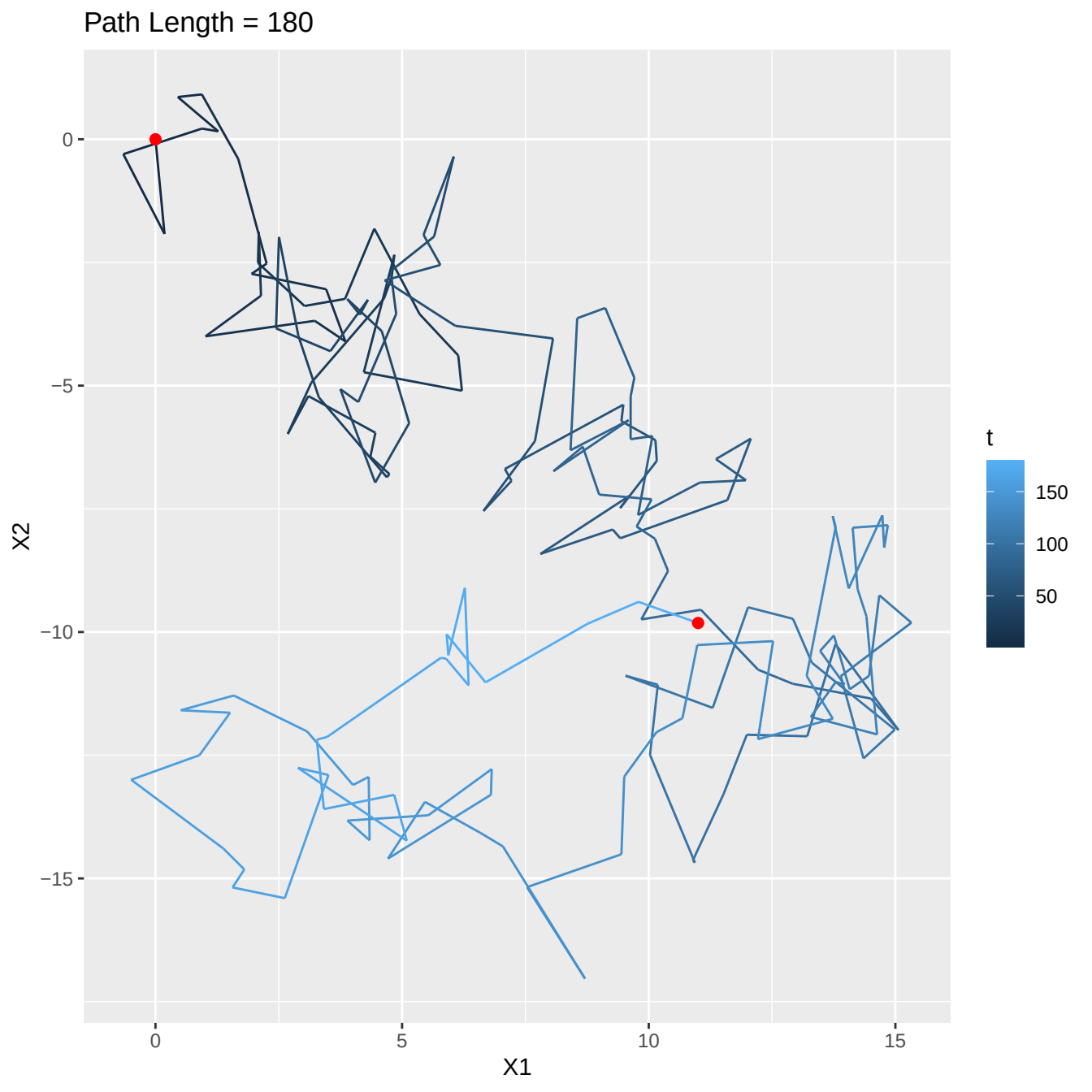
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X1
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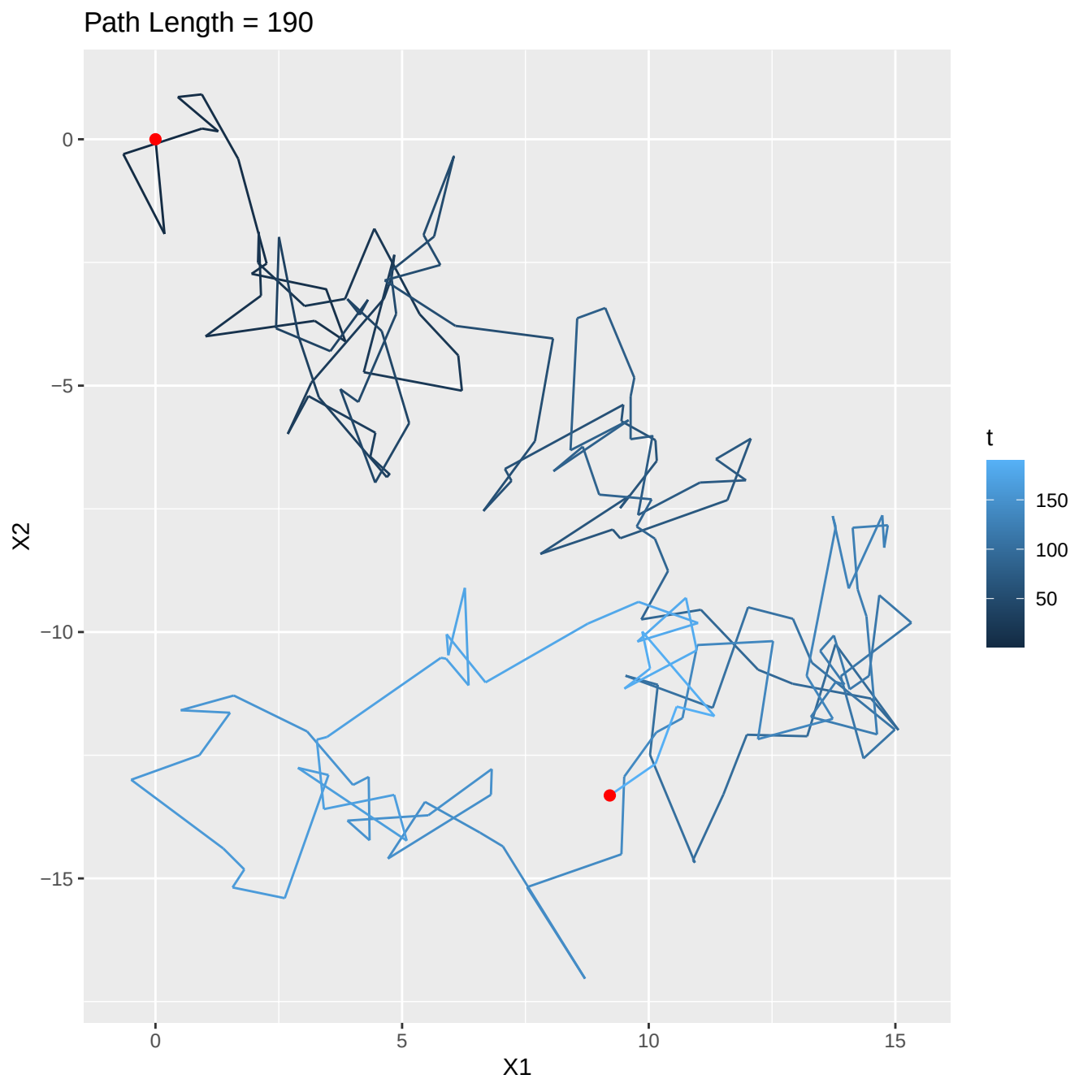
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X1
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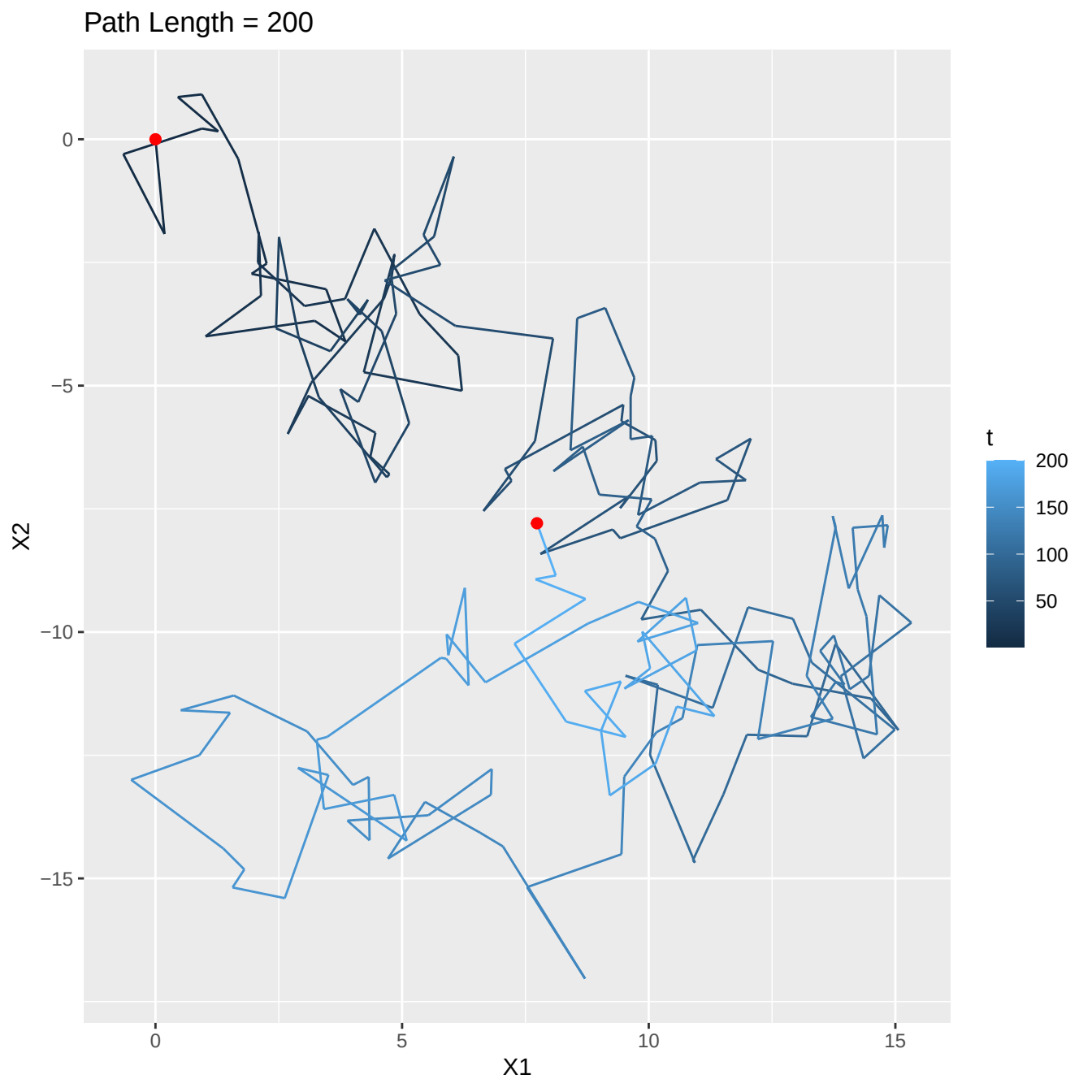
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X1
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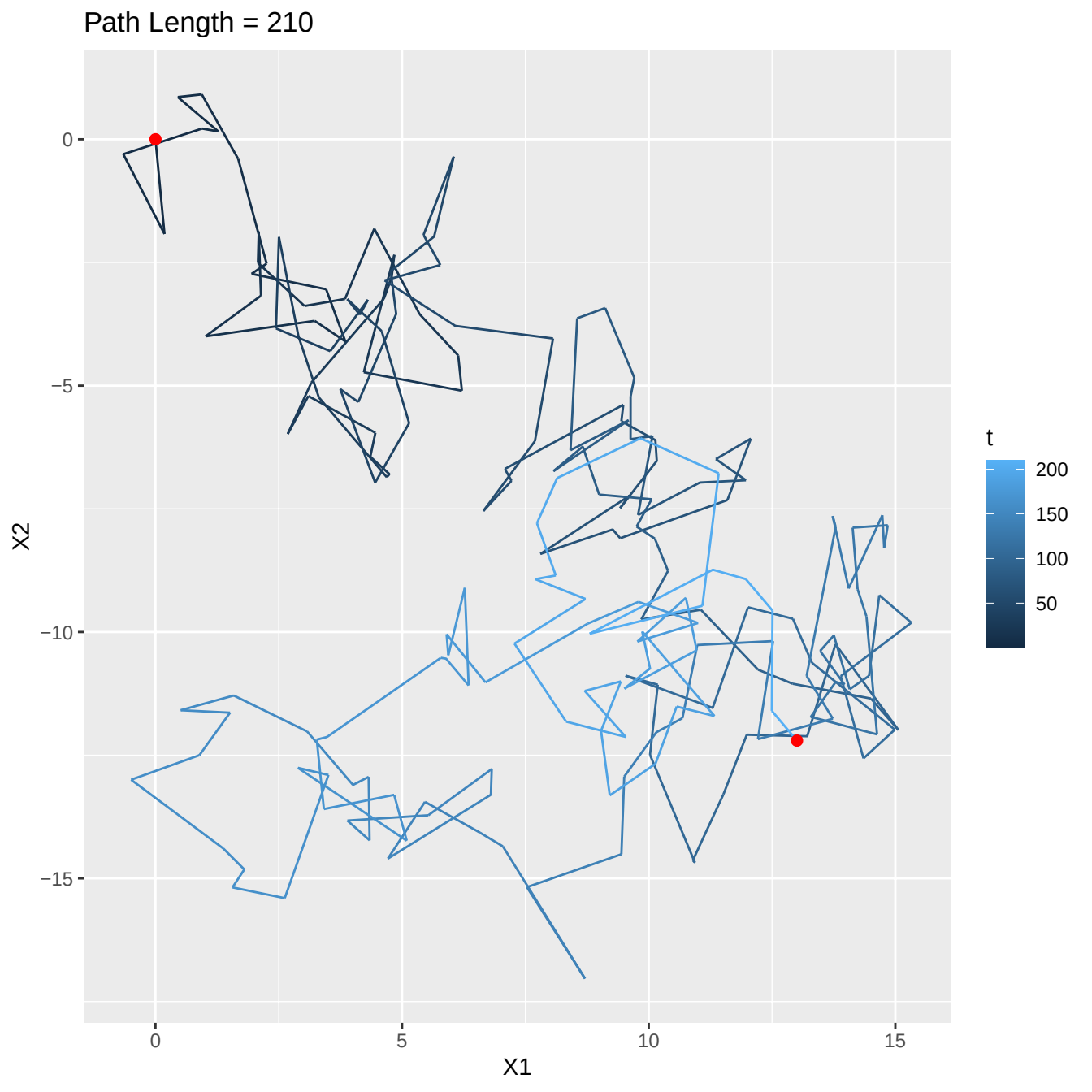
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X1
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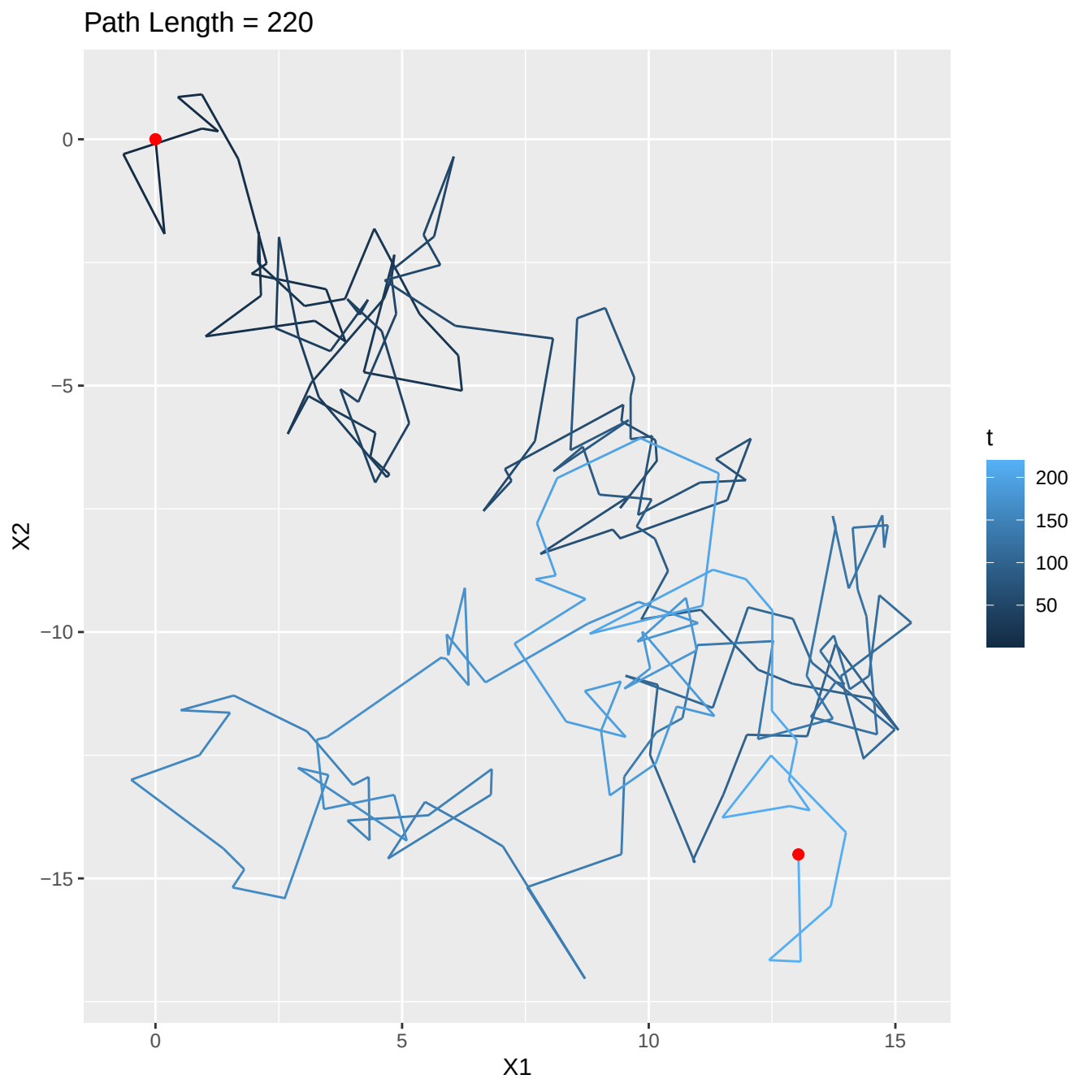
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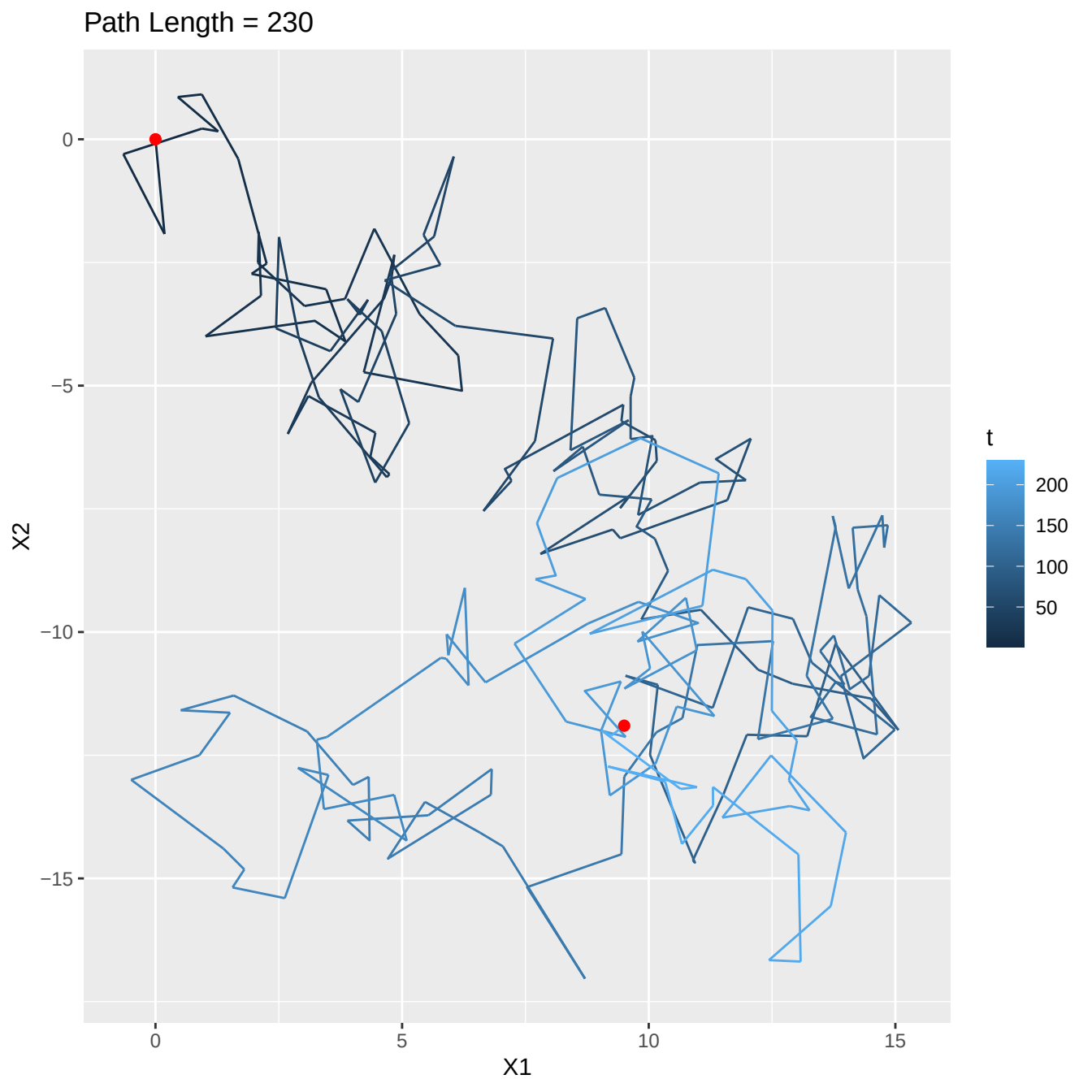
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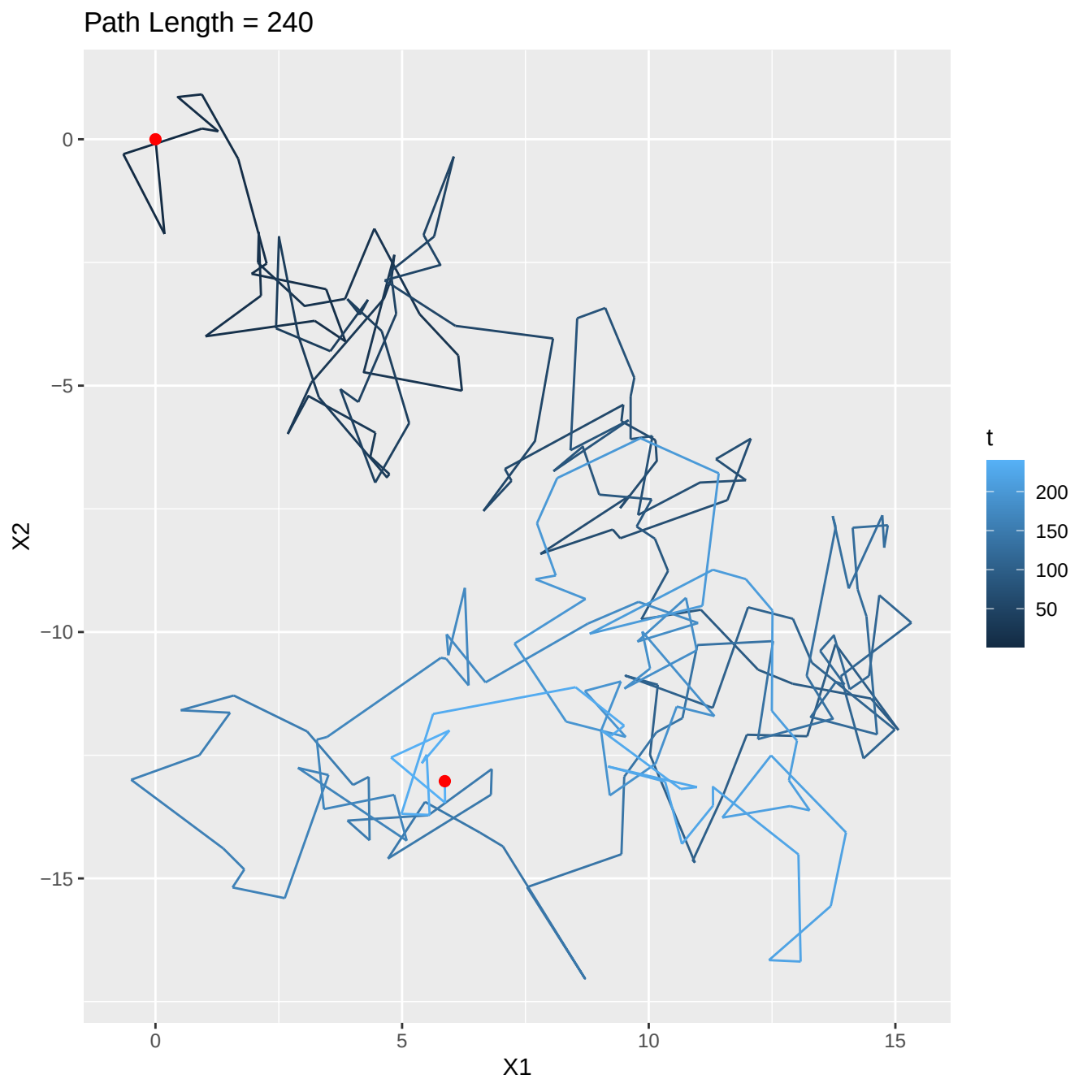
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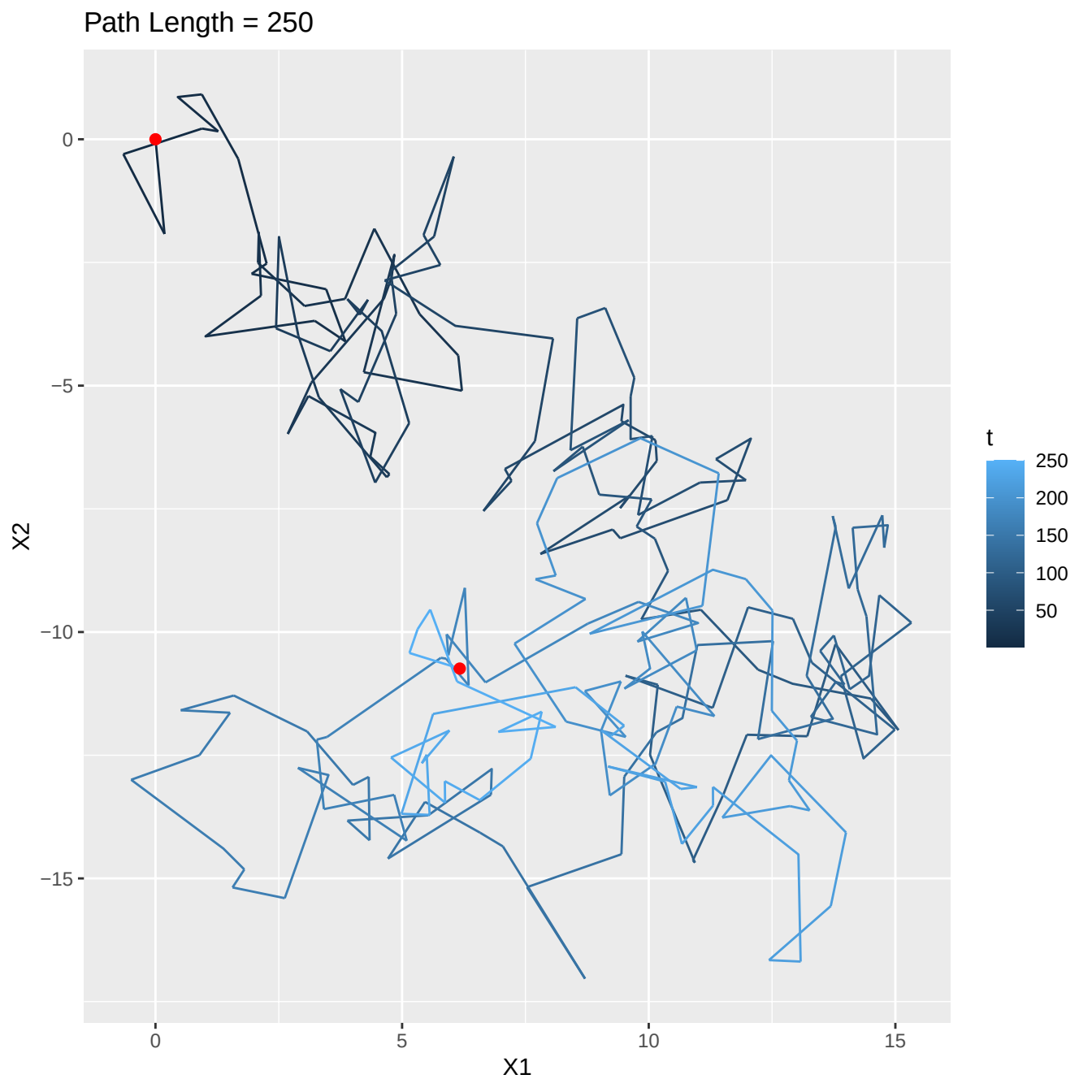
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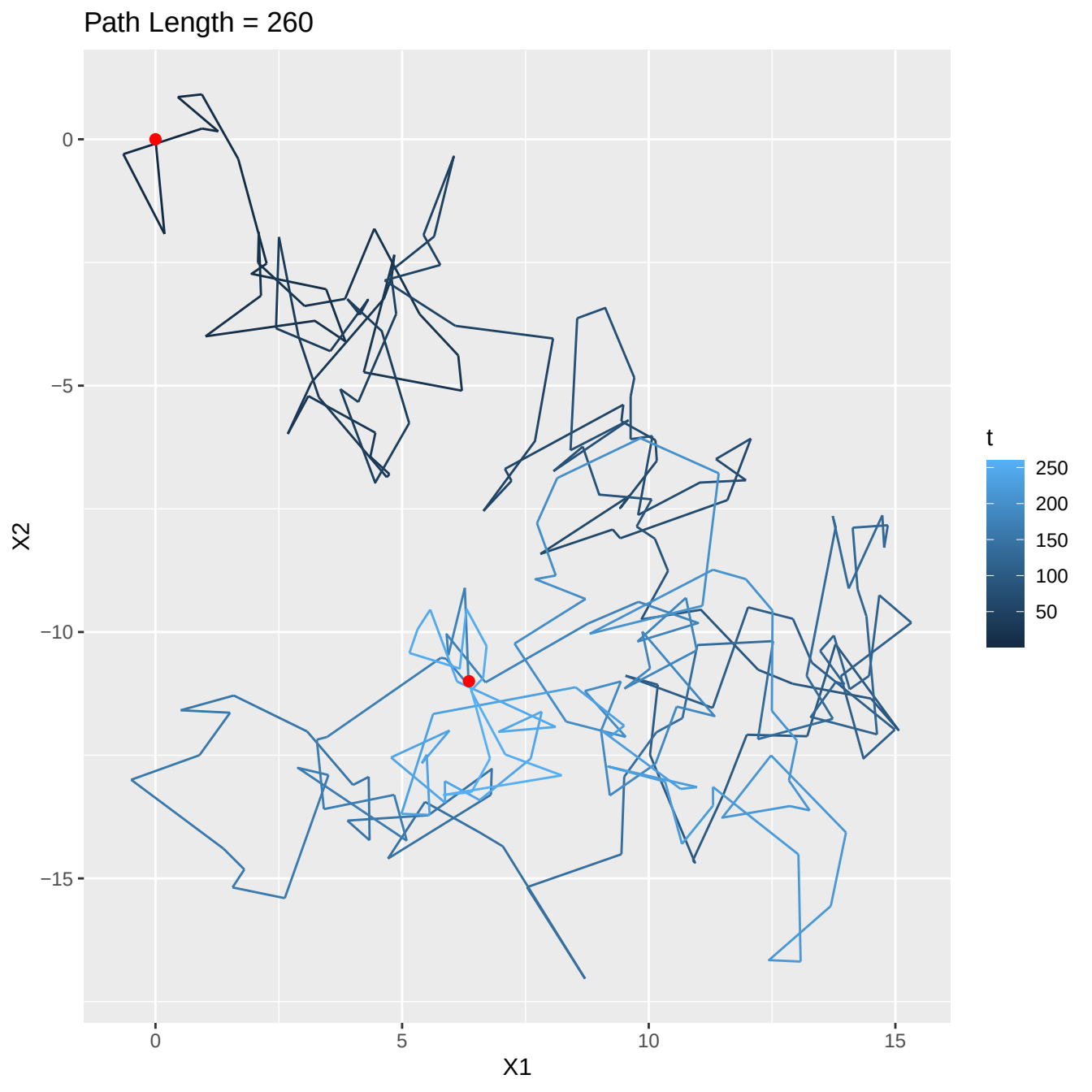
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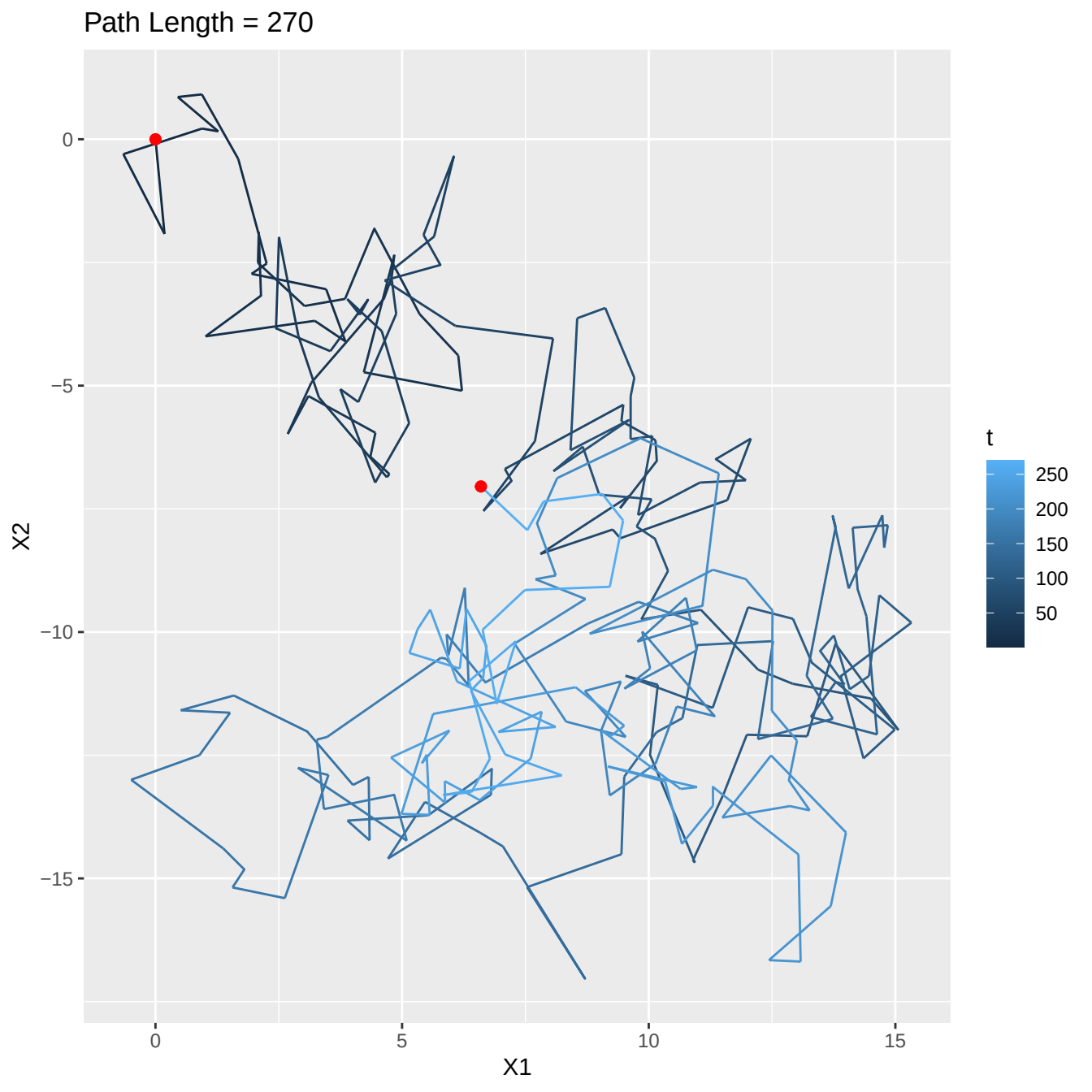
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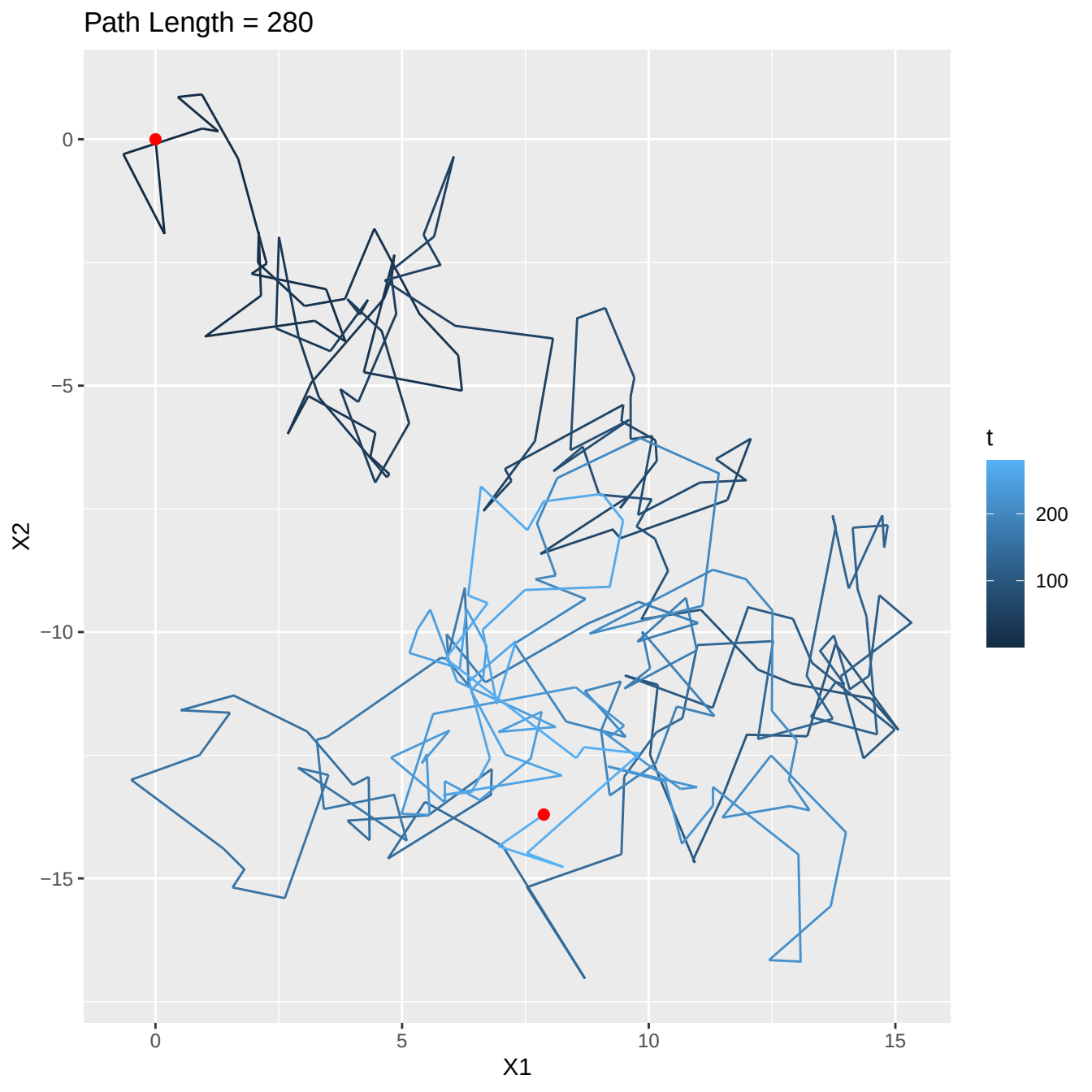
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X1
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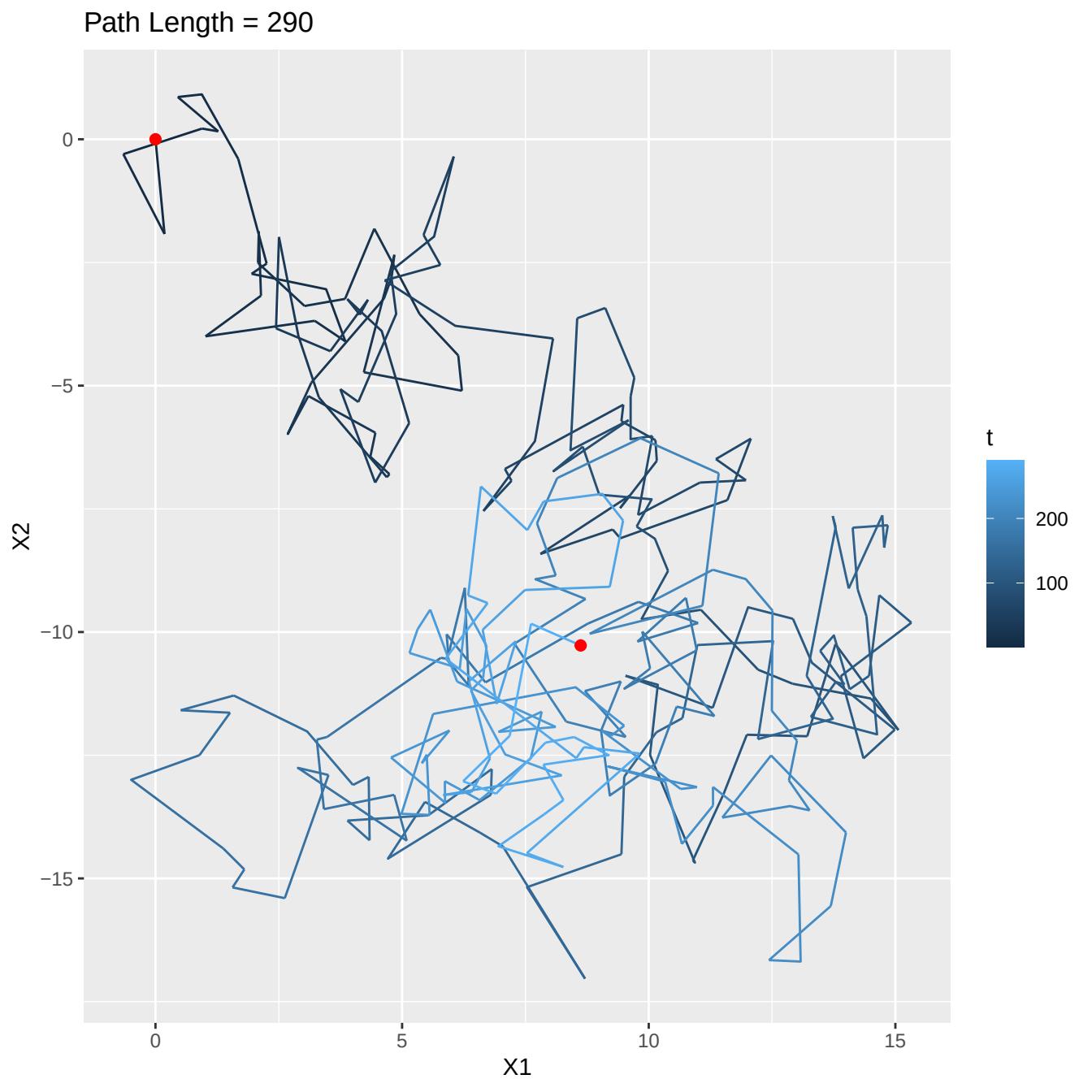
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X1
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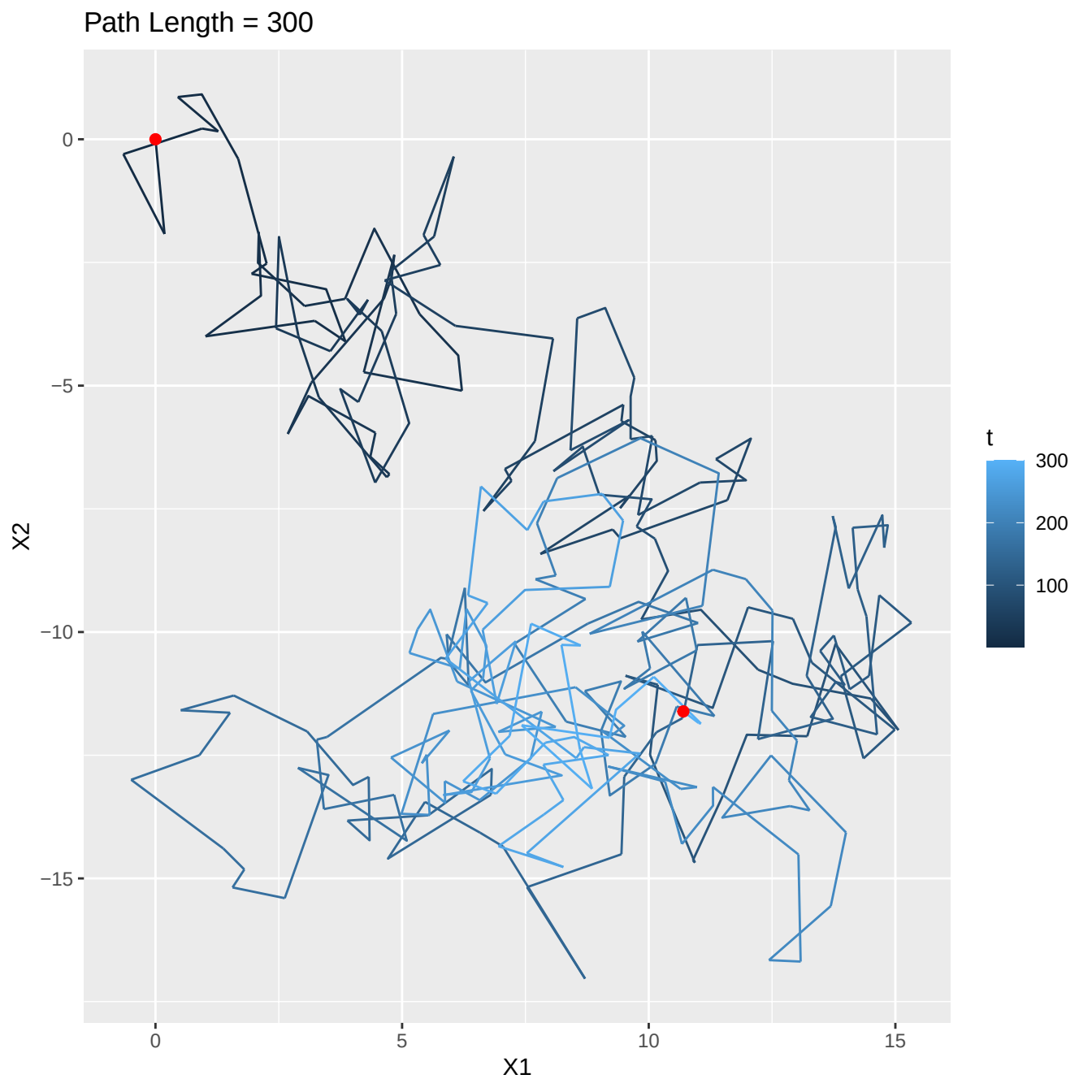
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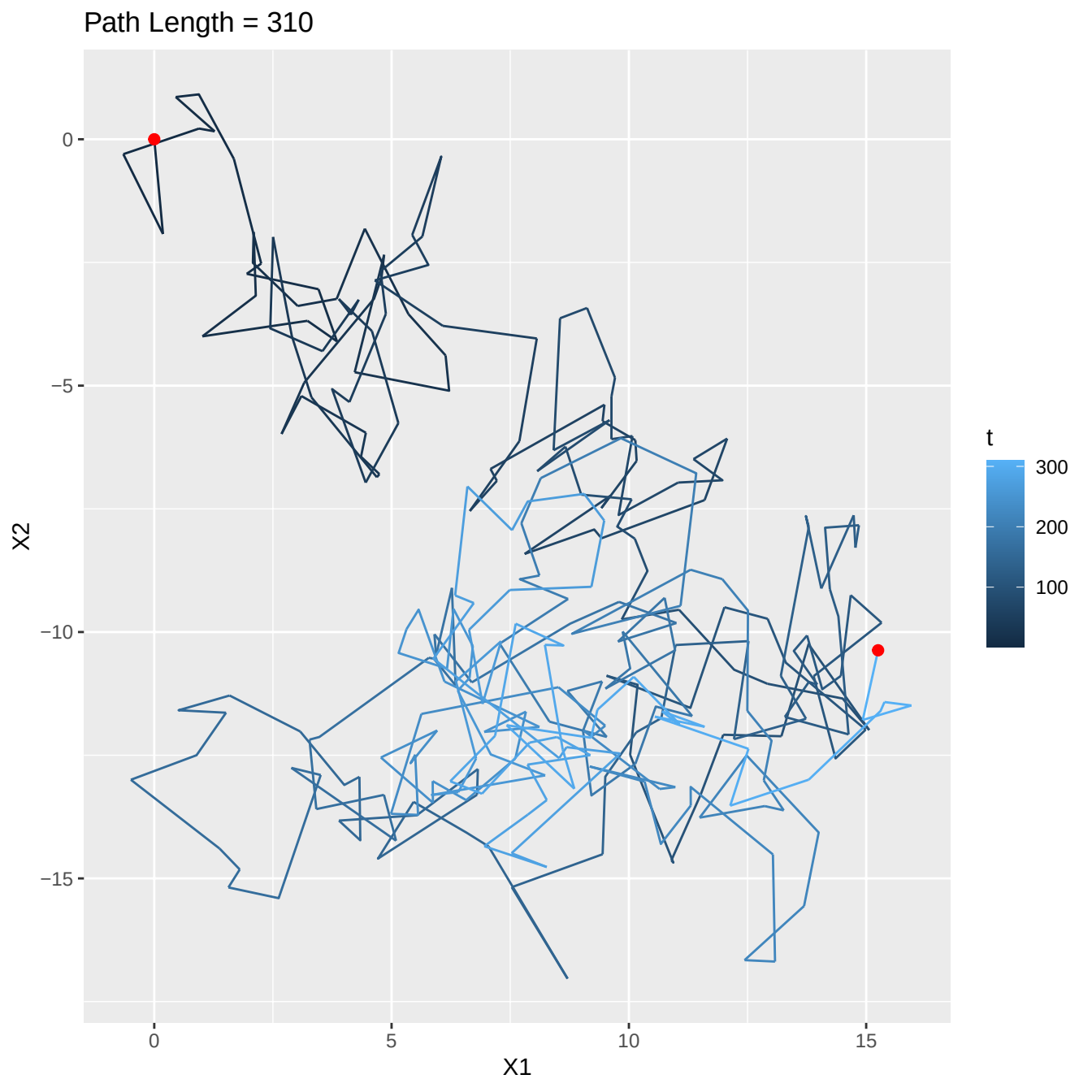
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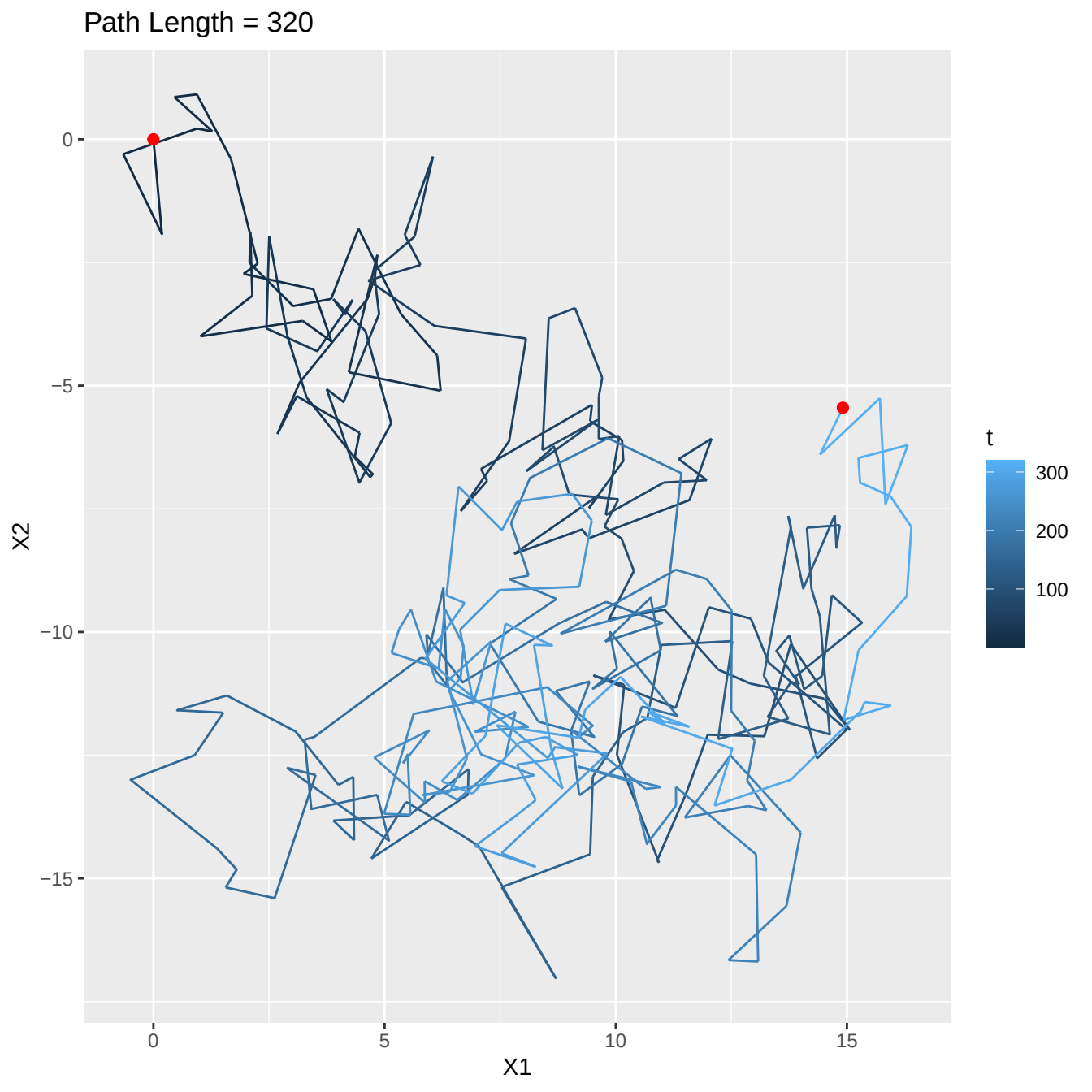
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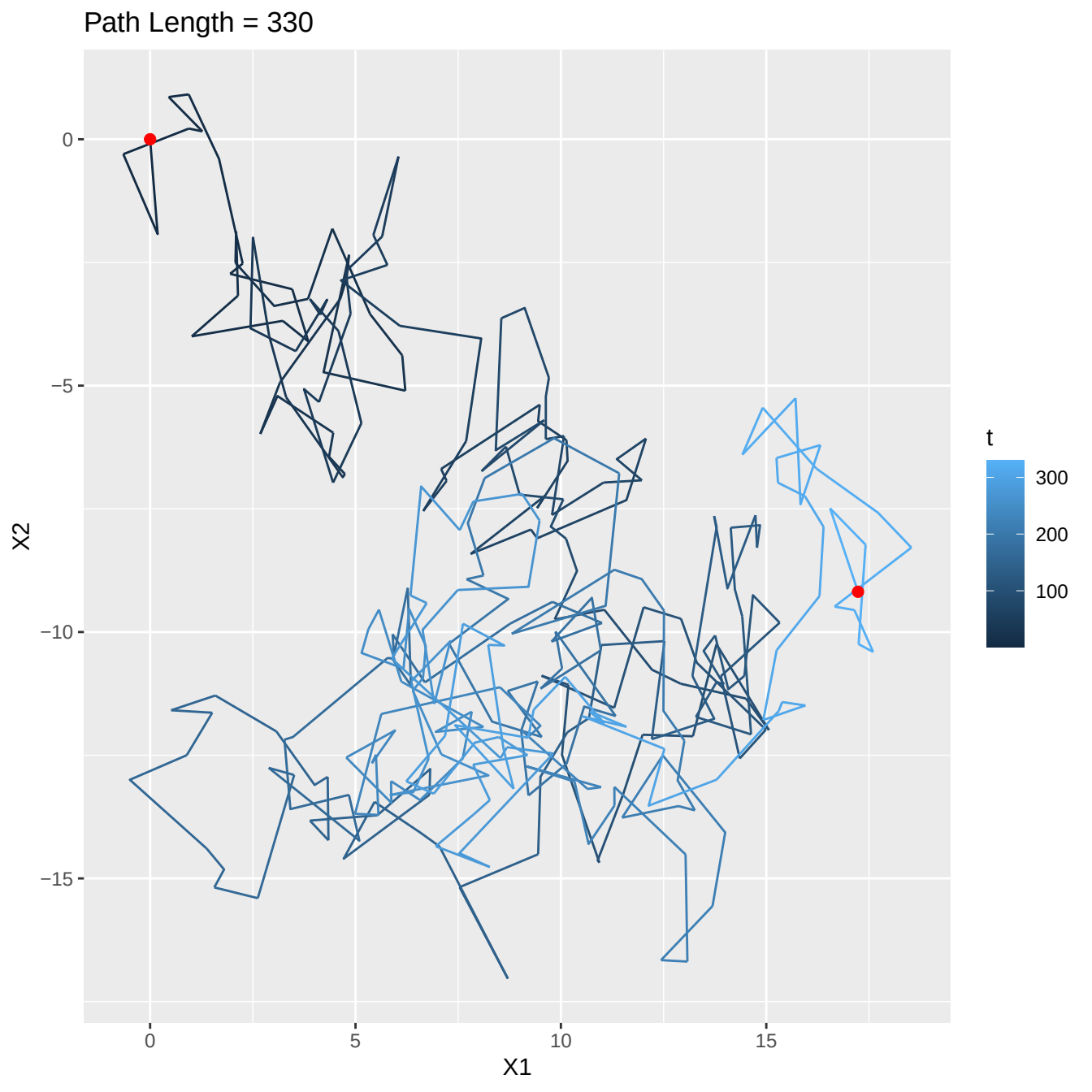
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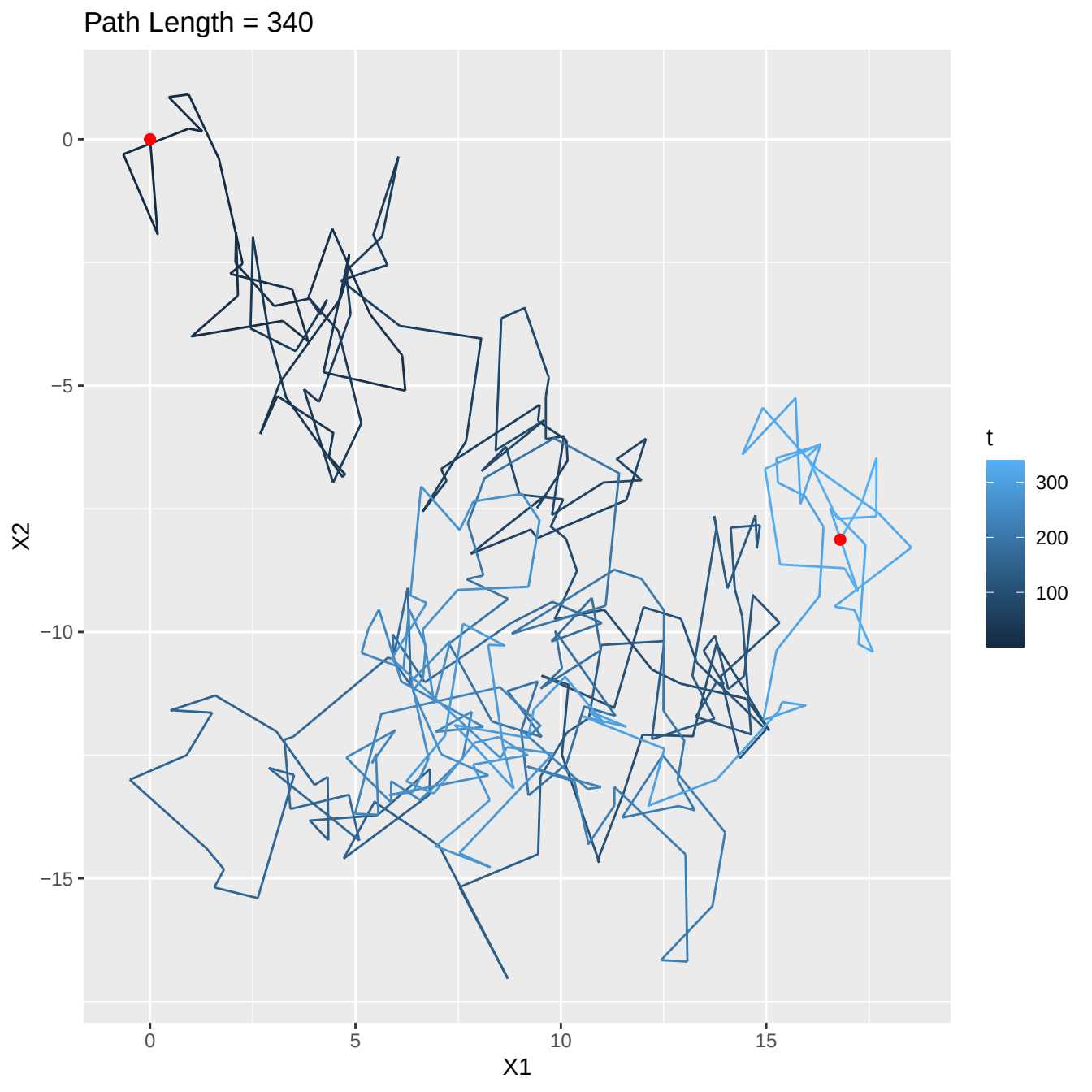
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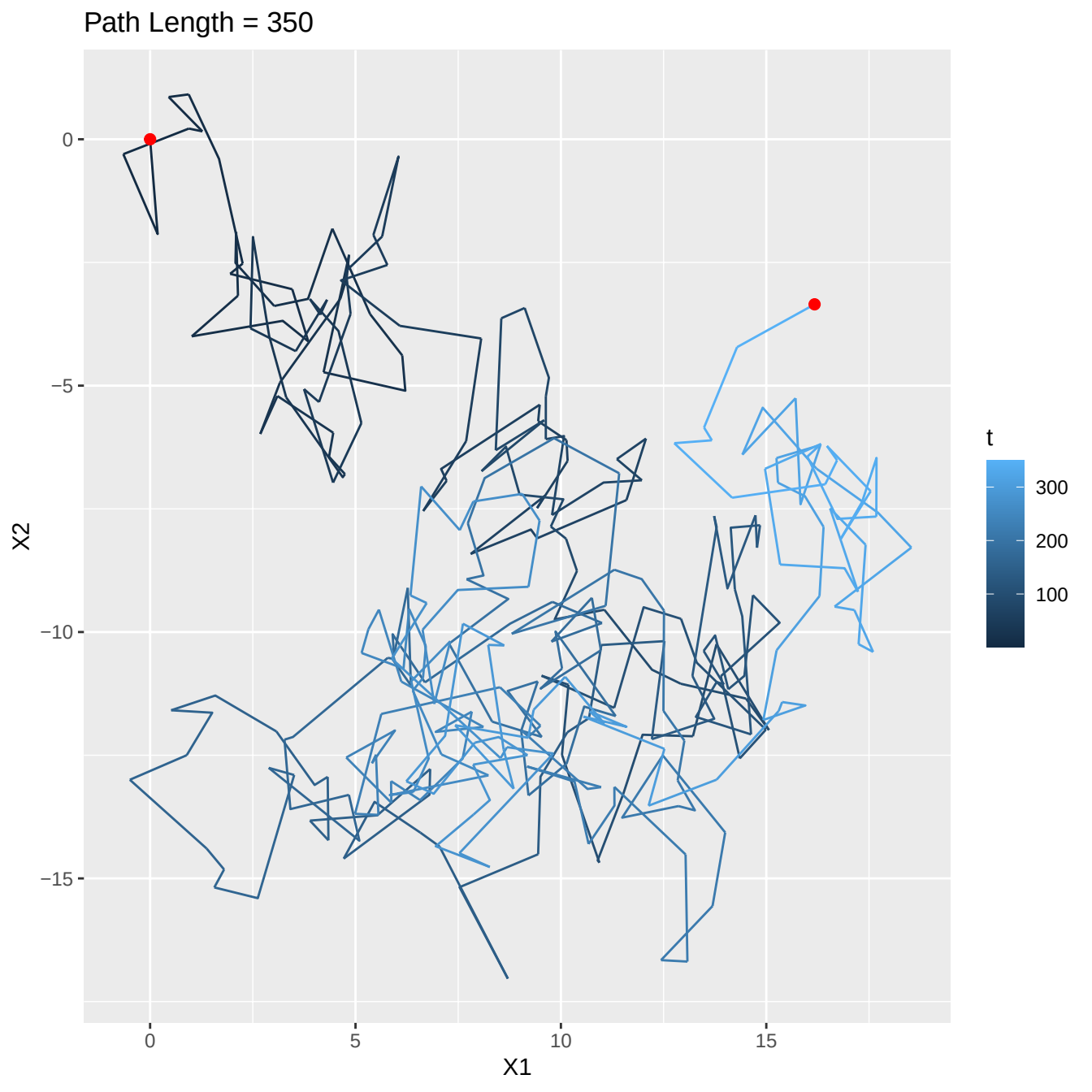
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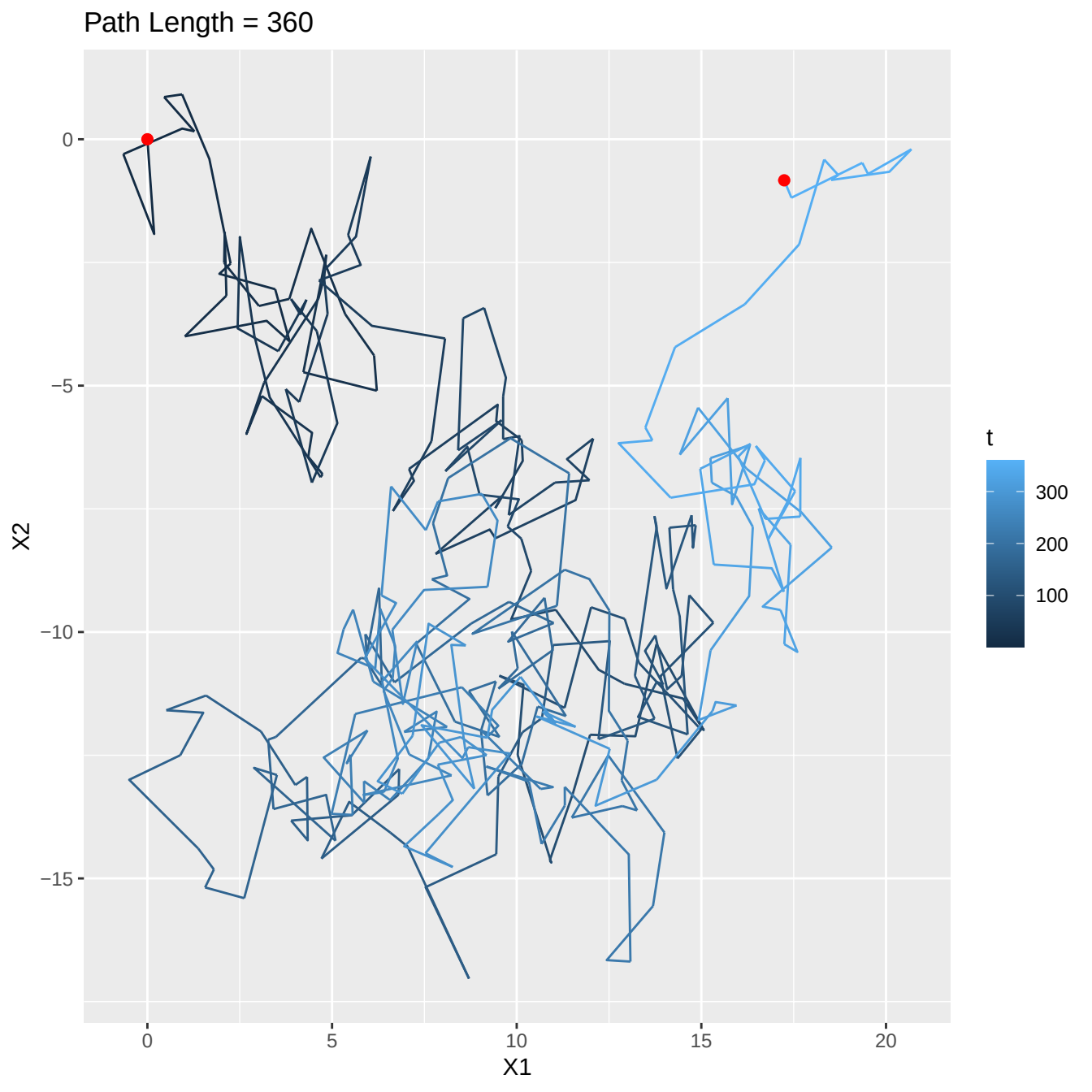
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X1
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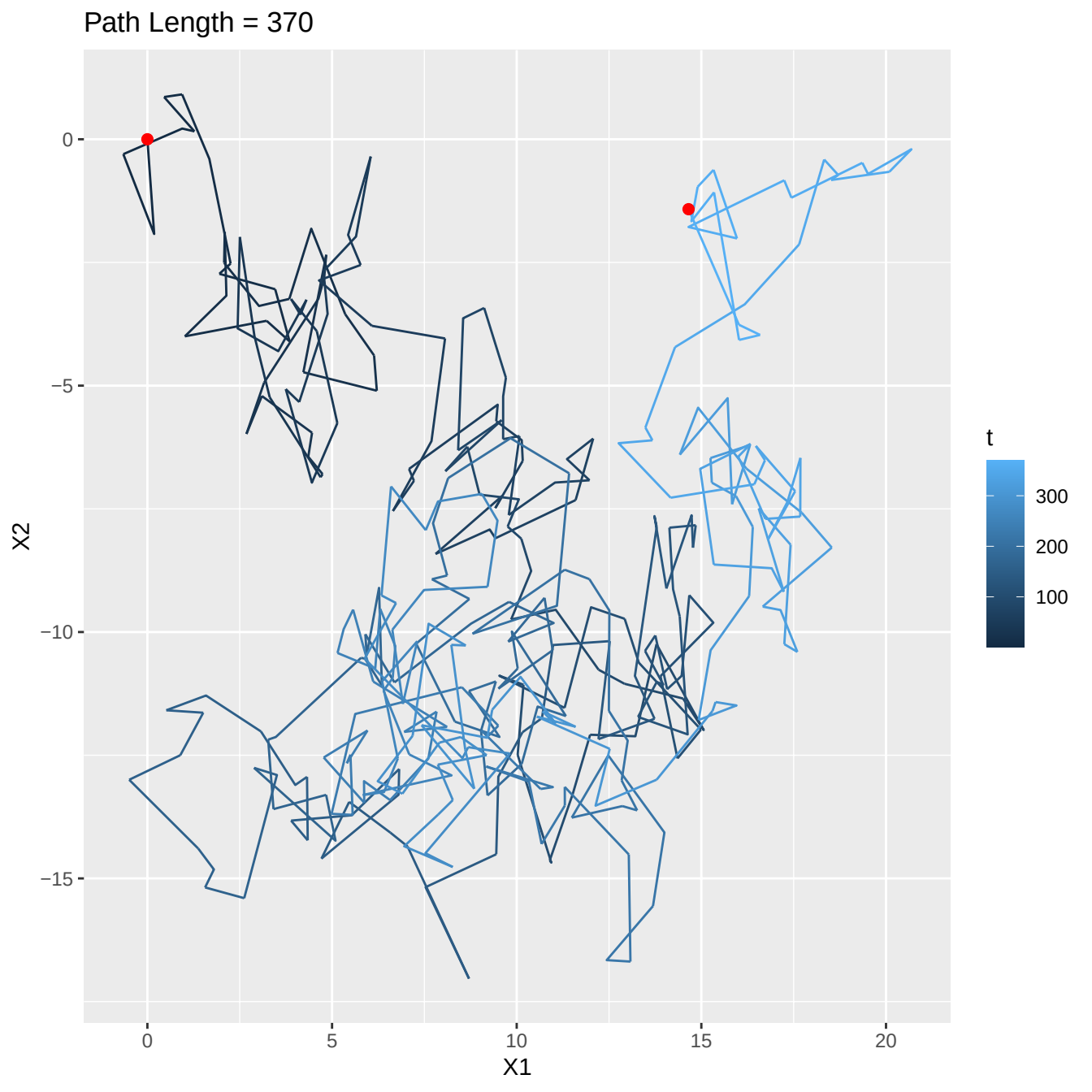
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X1
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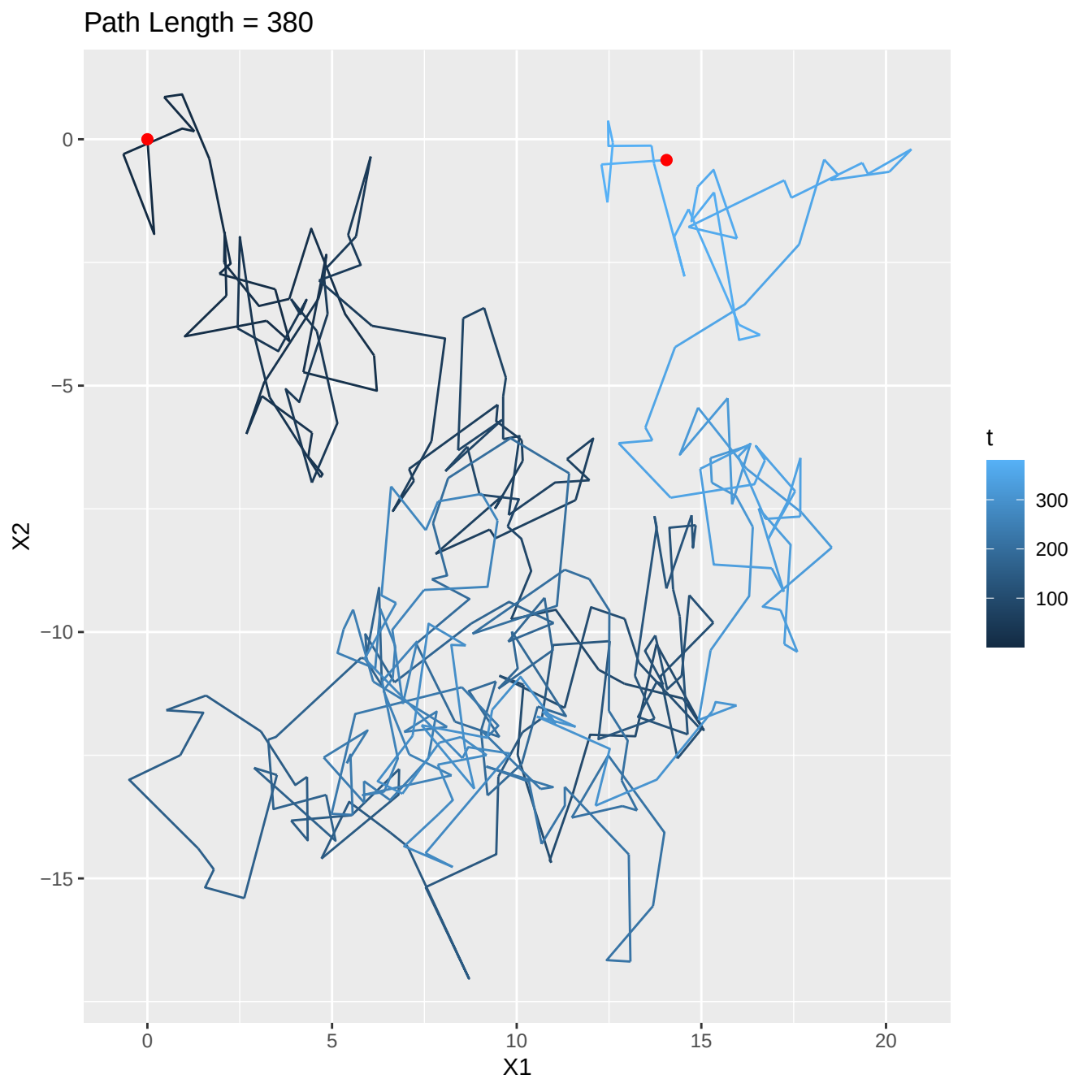
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X1
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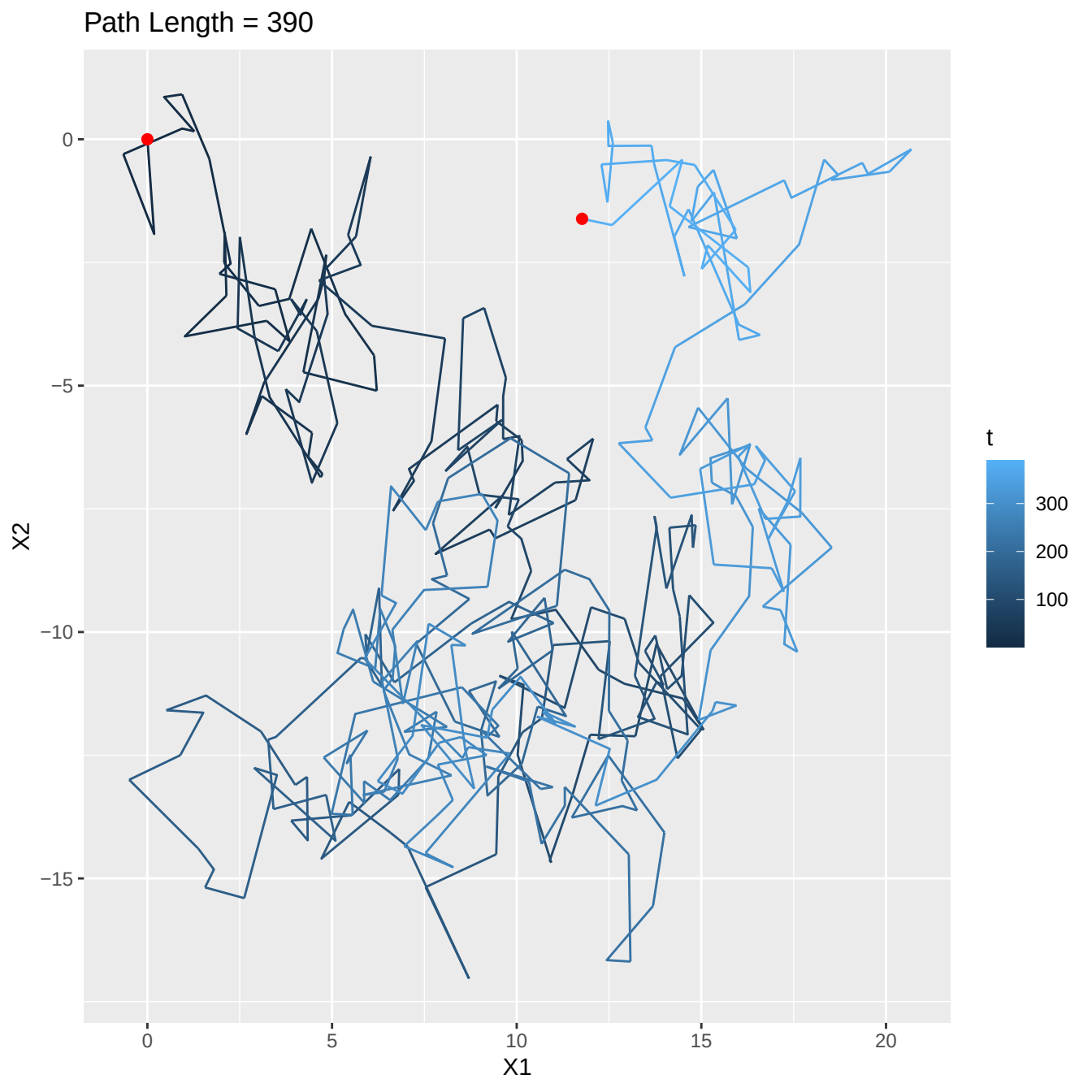
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X1
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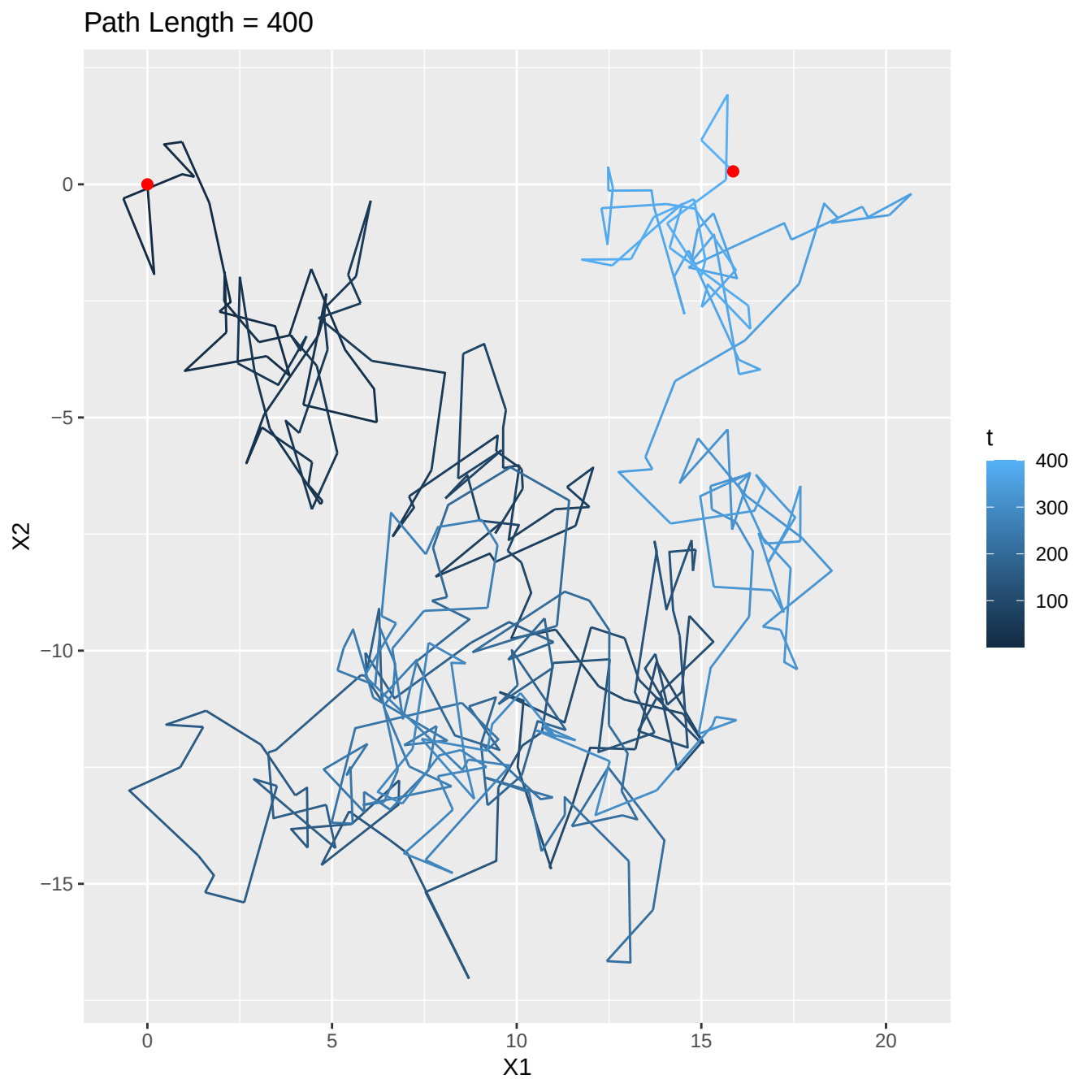
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X1
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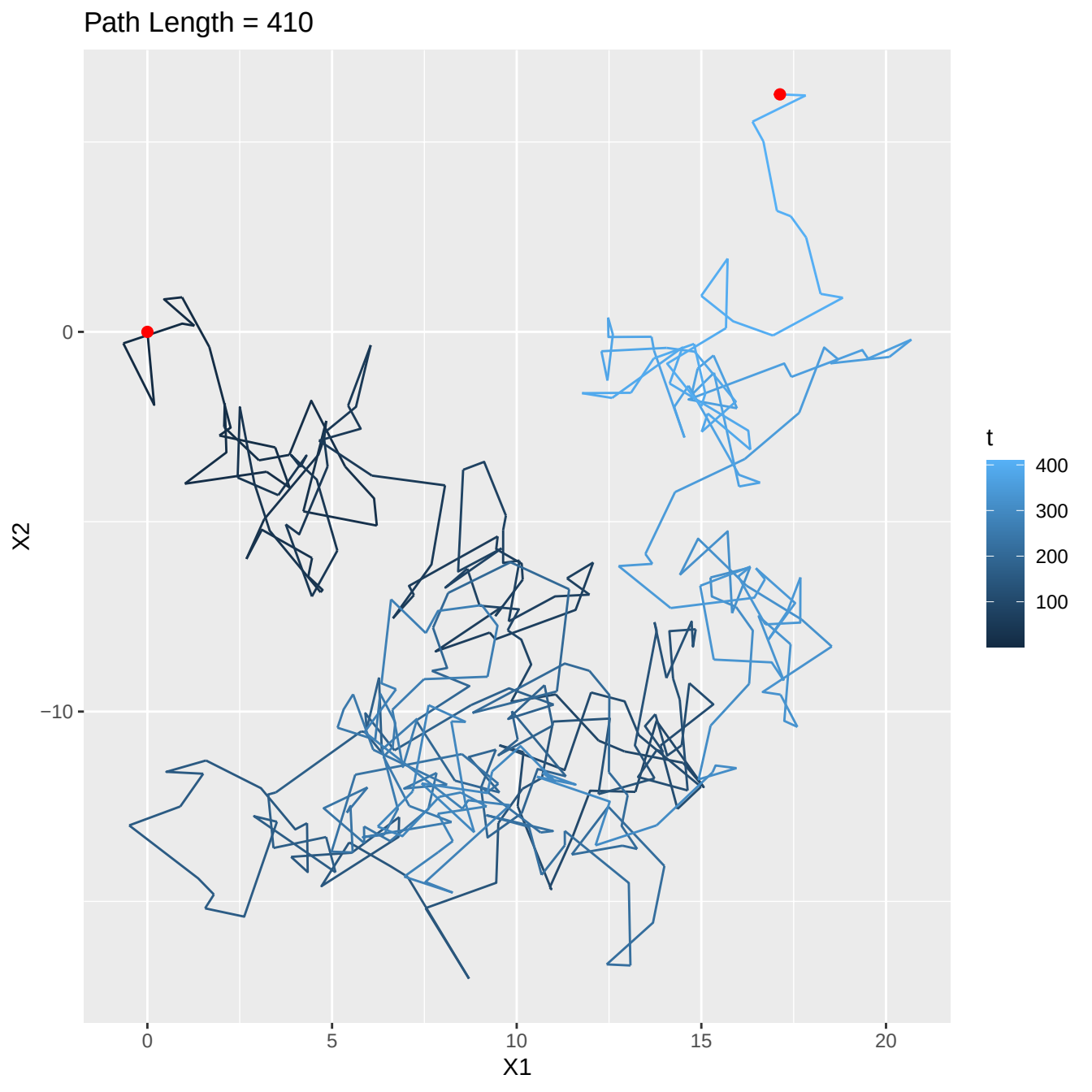
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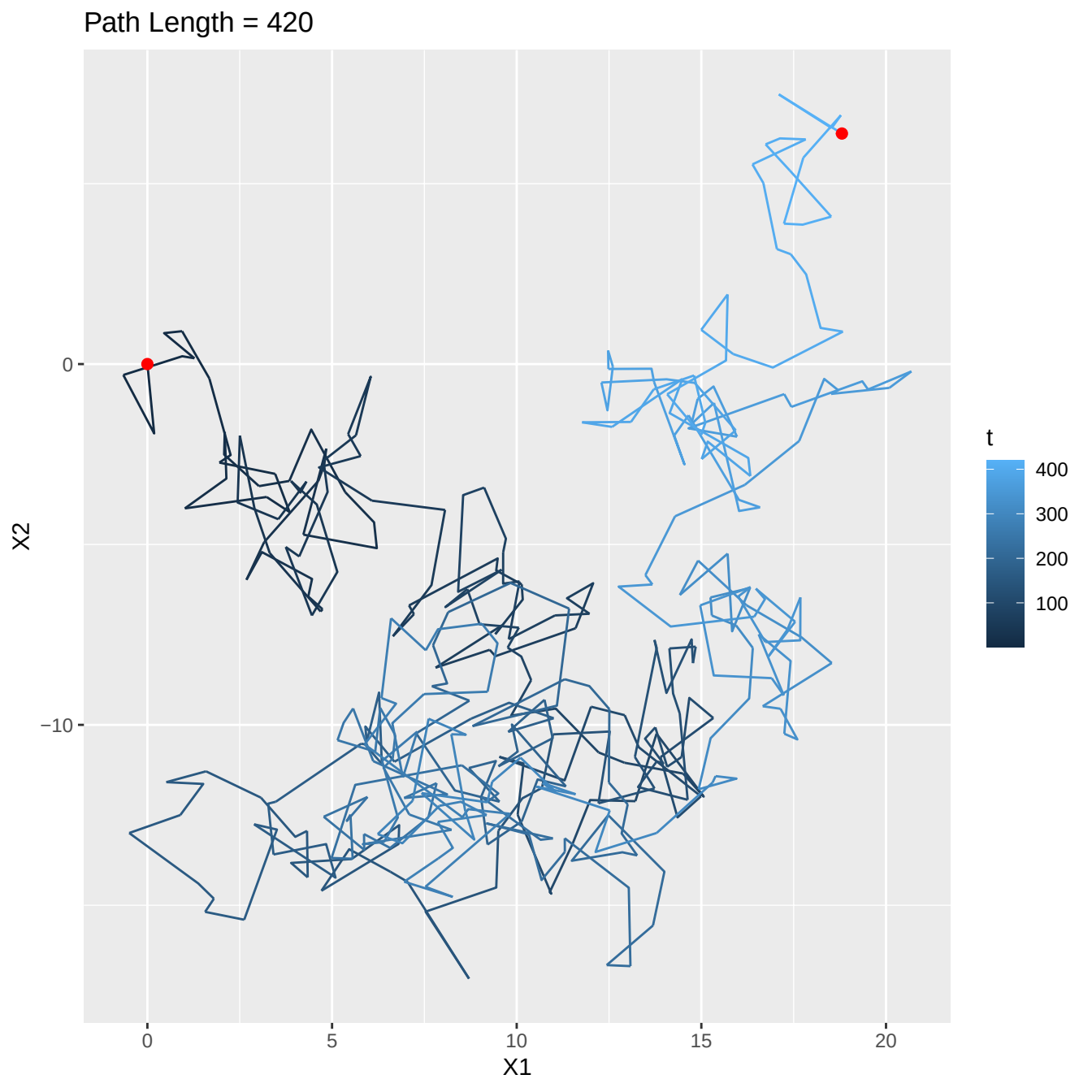
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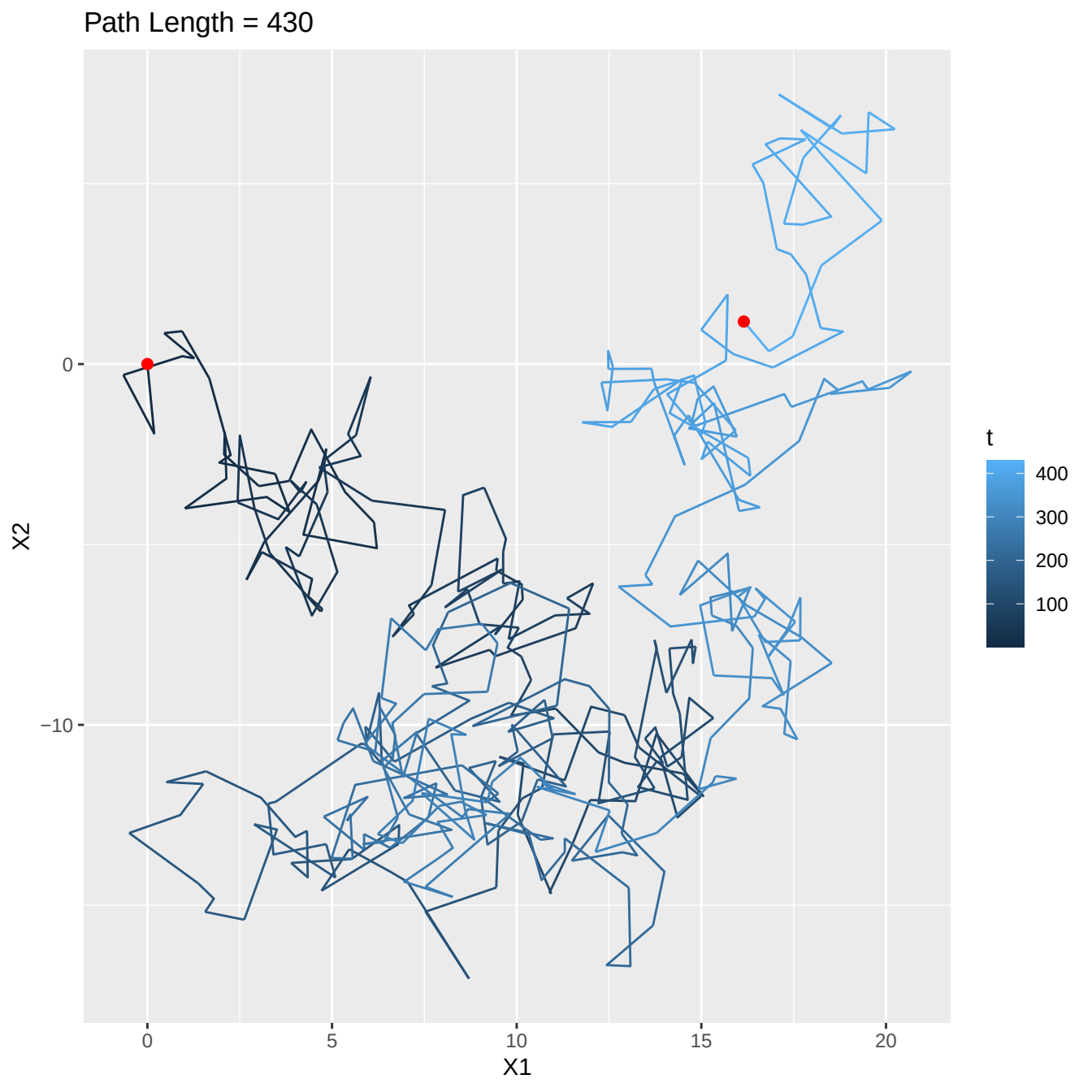
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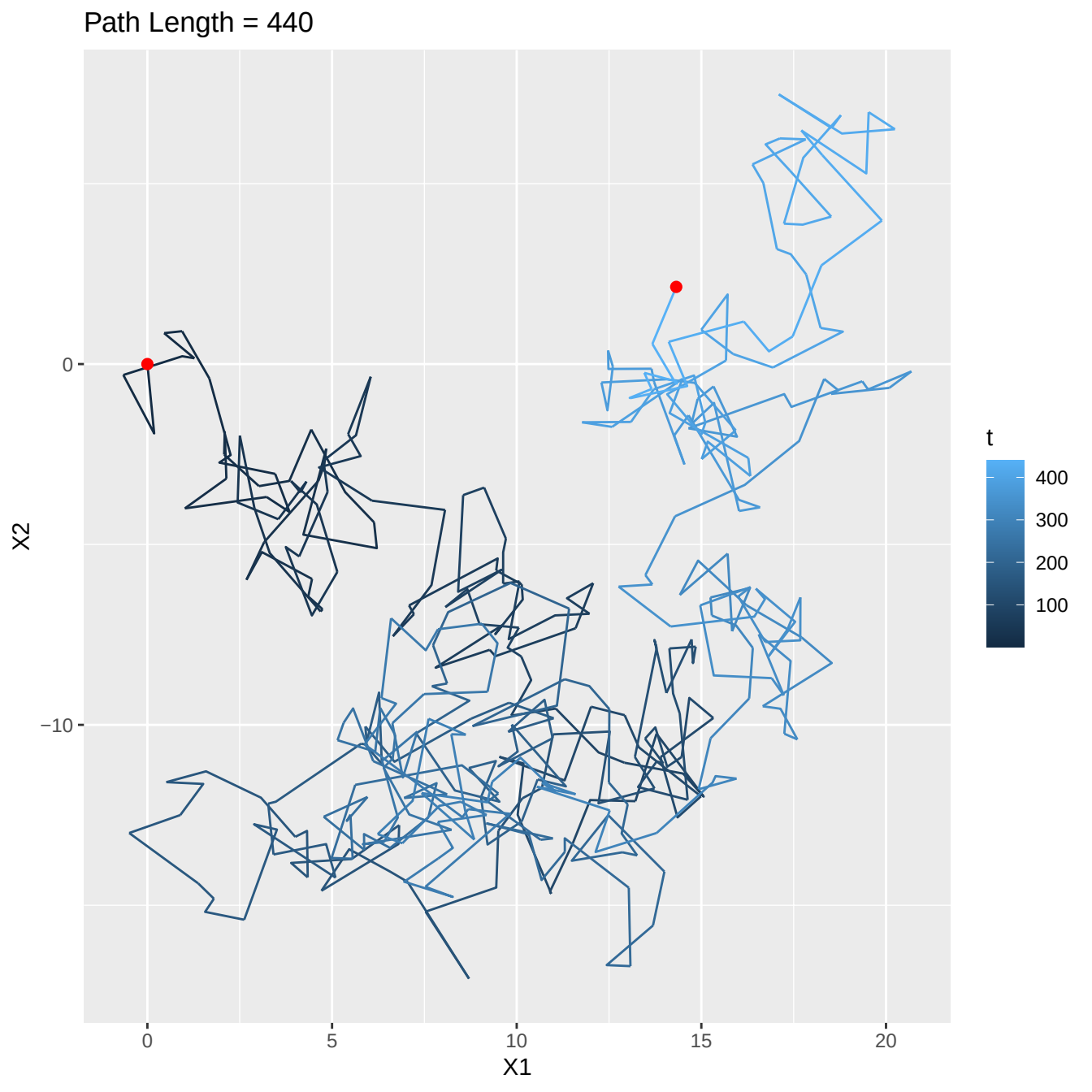
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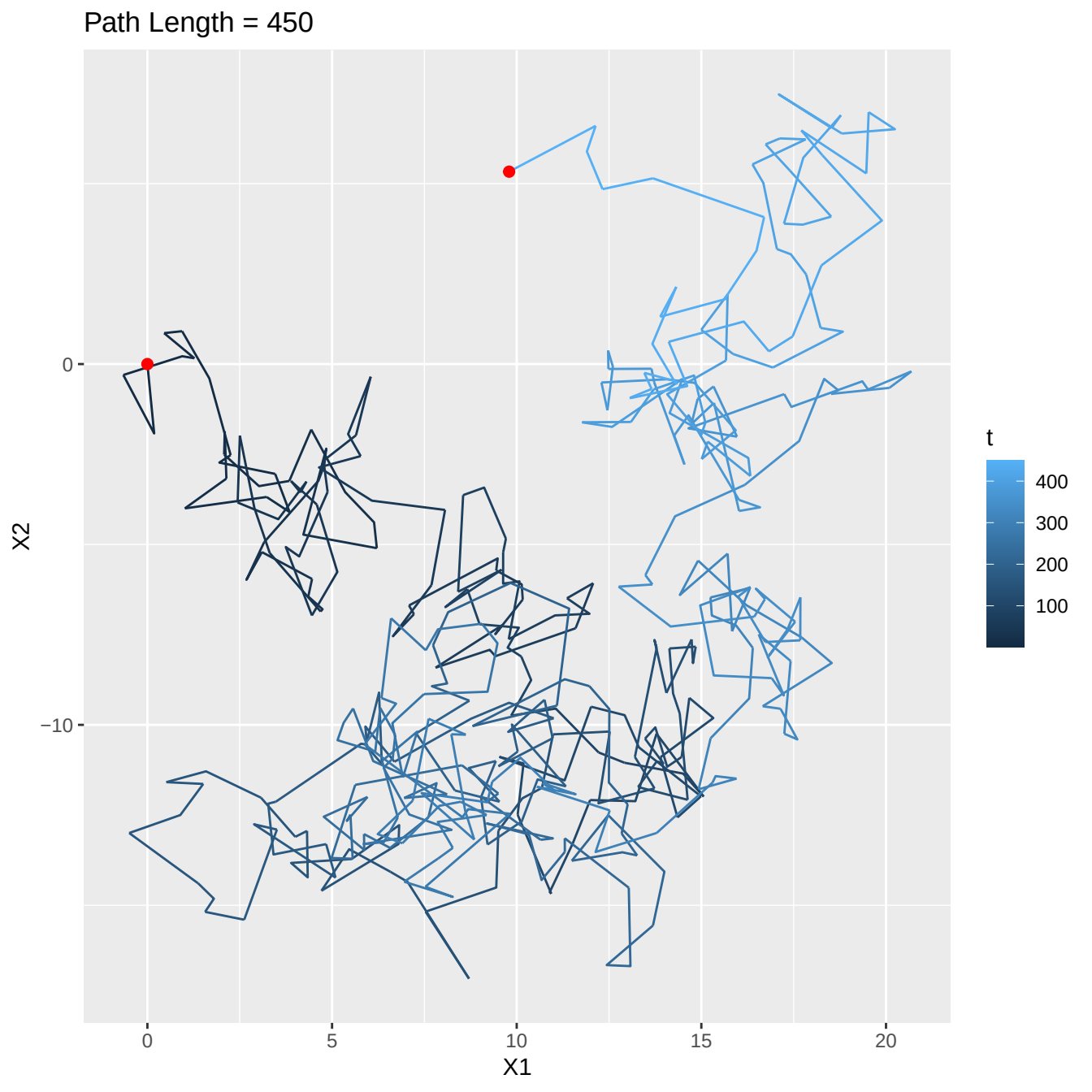
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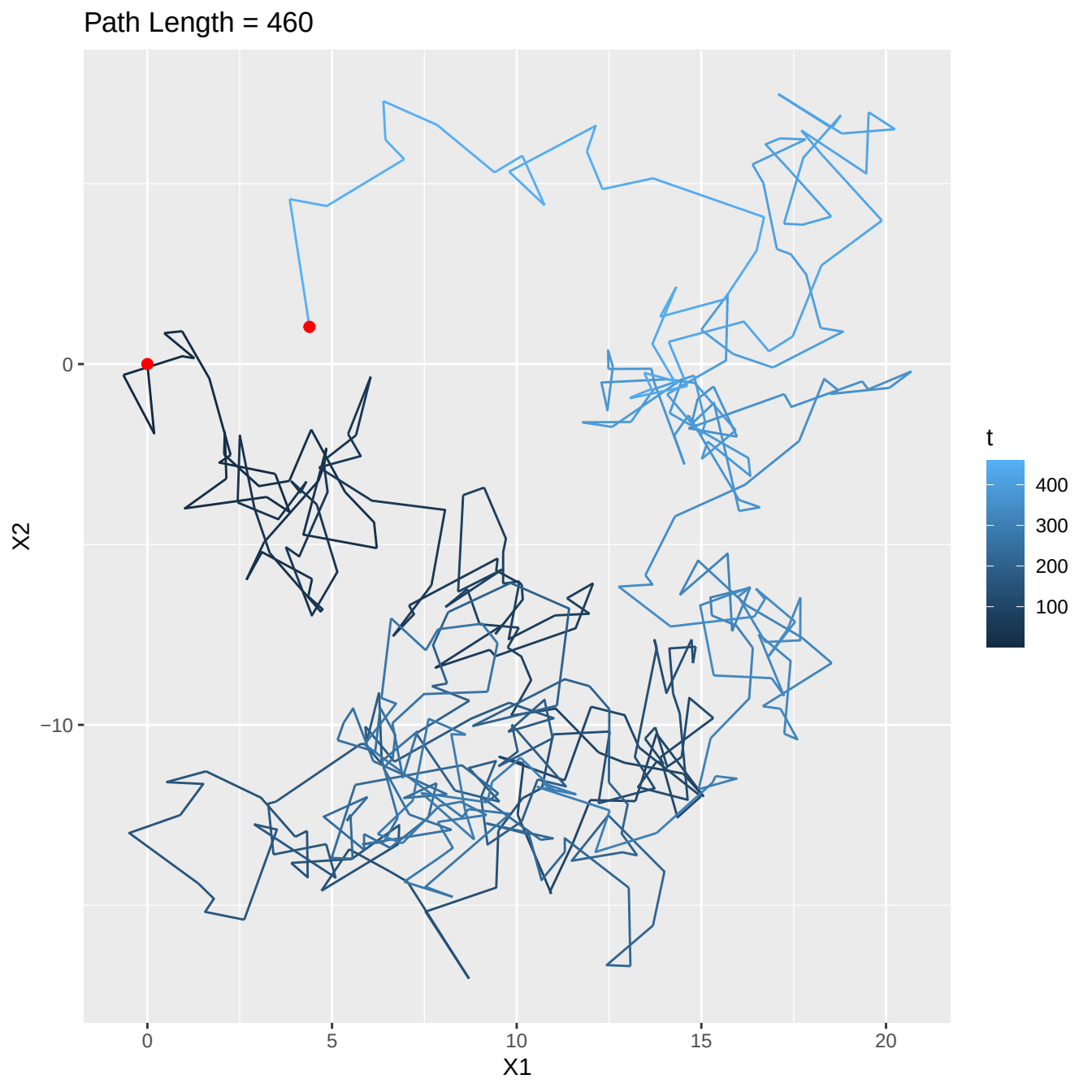
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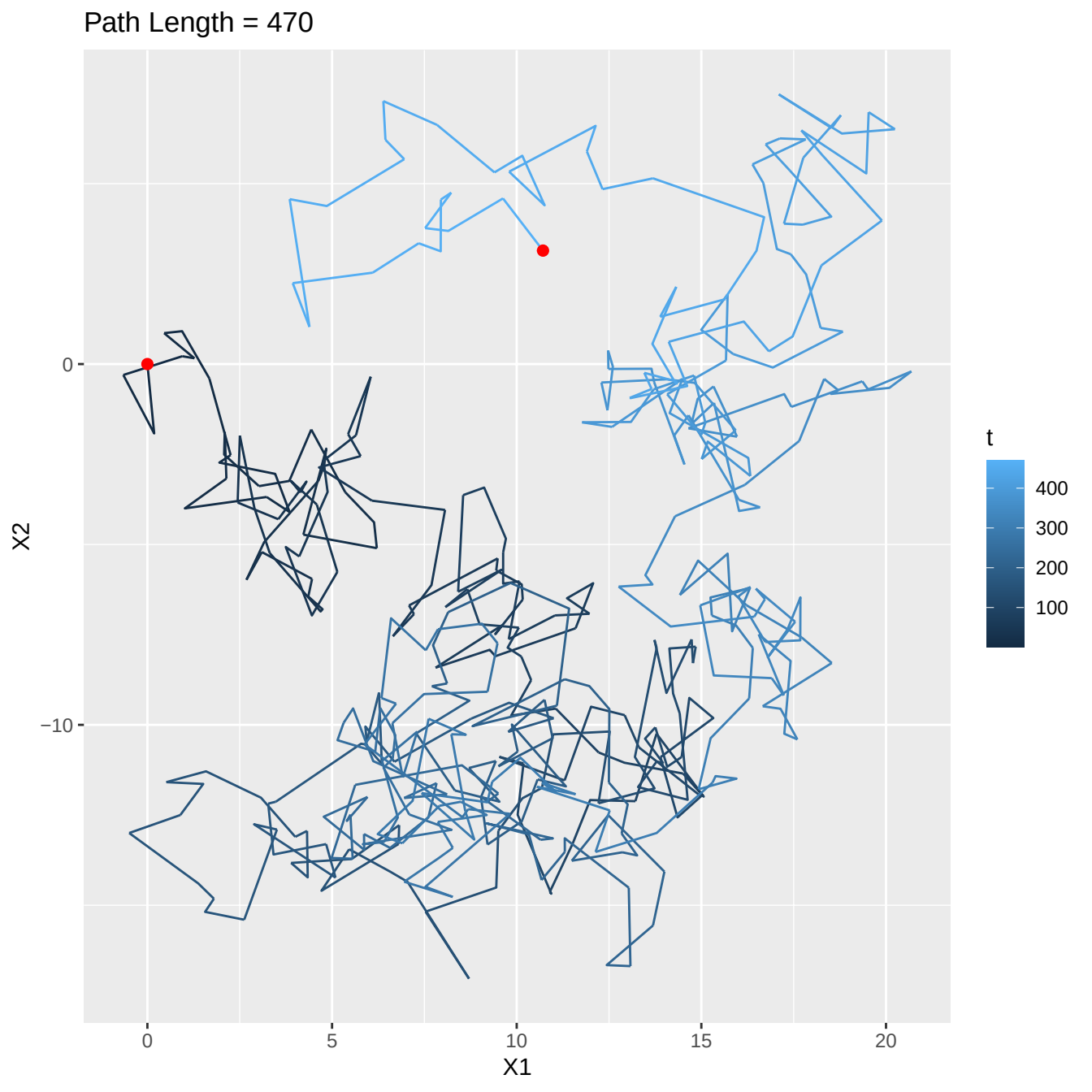
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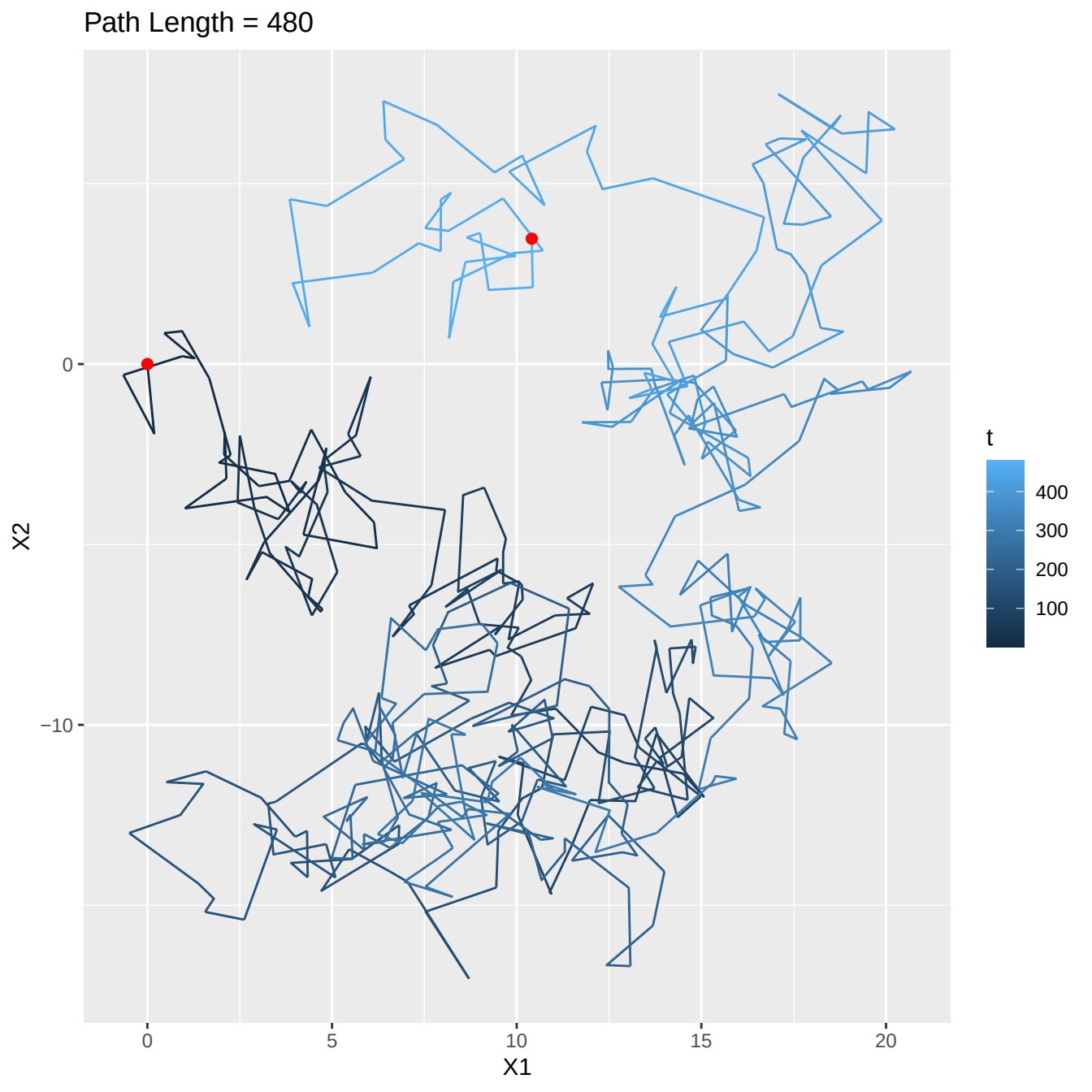
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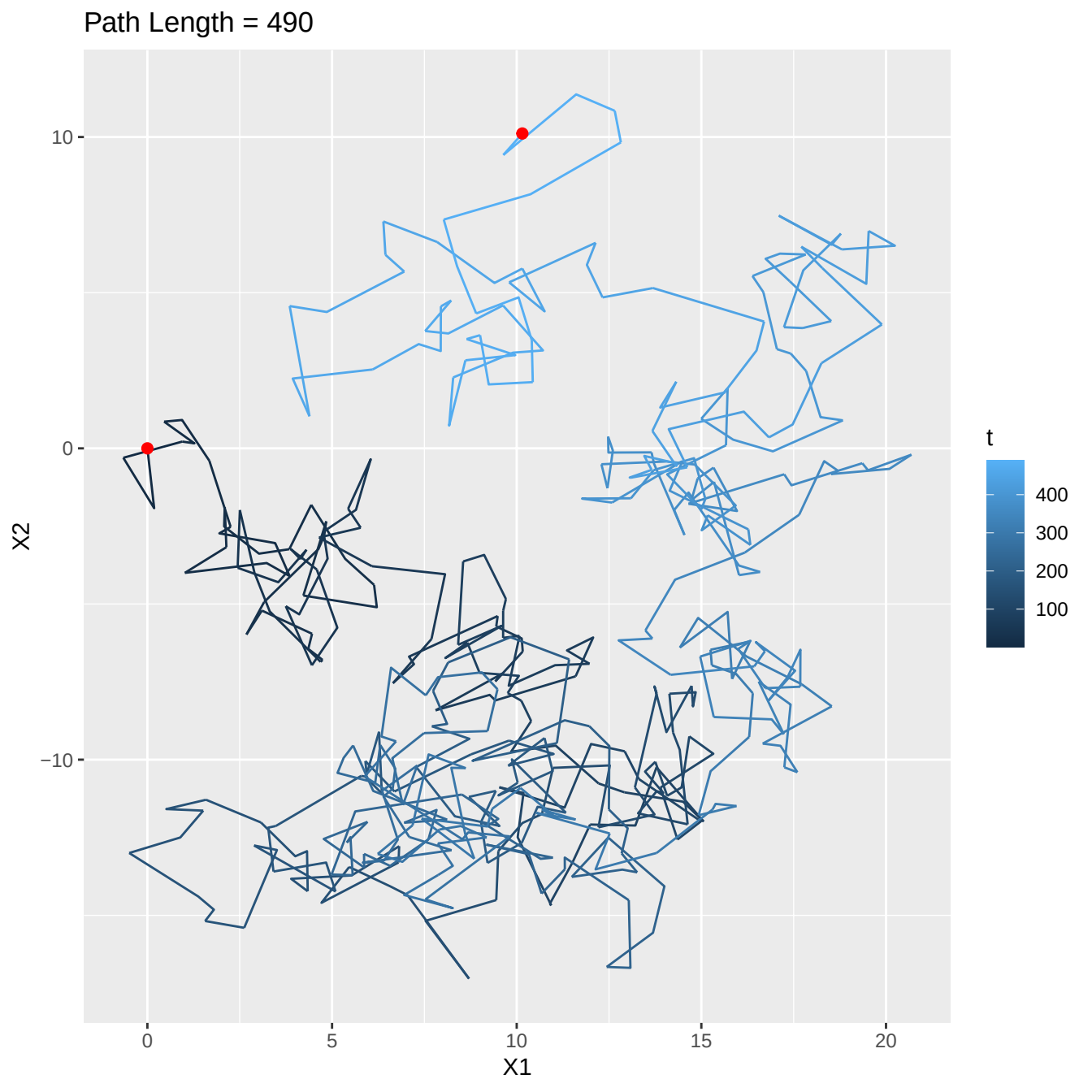
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X2
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10
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X1
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300
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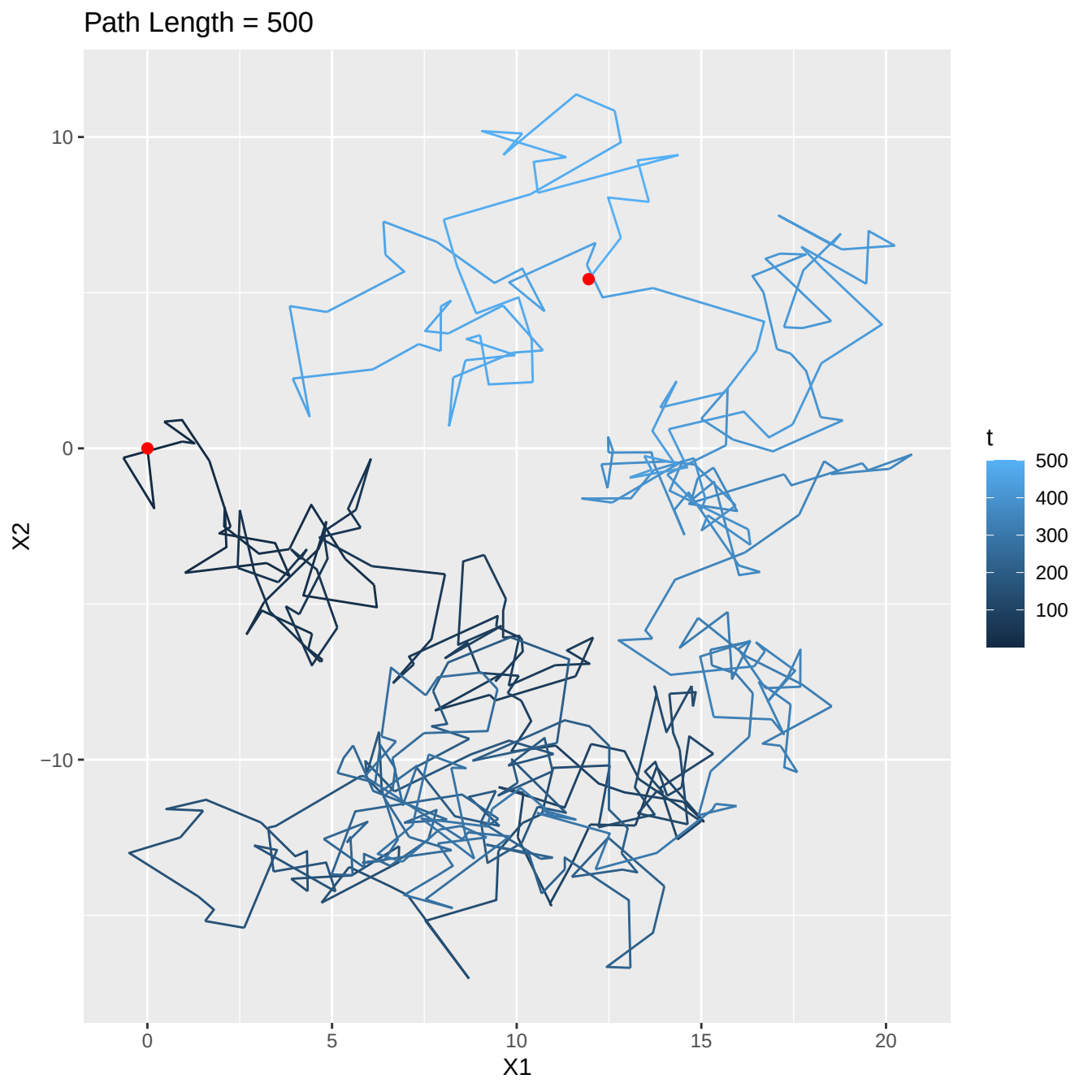
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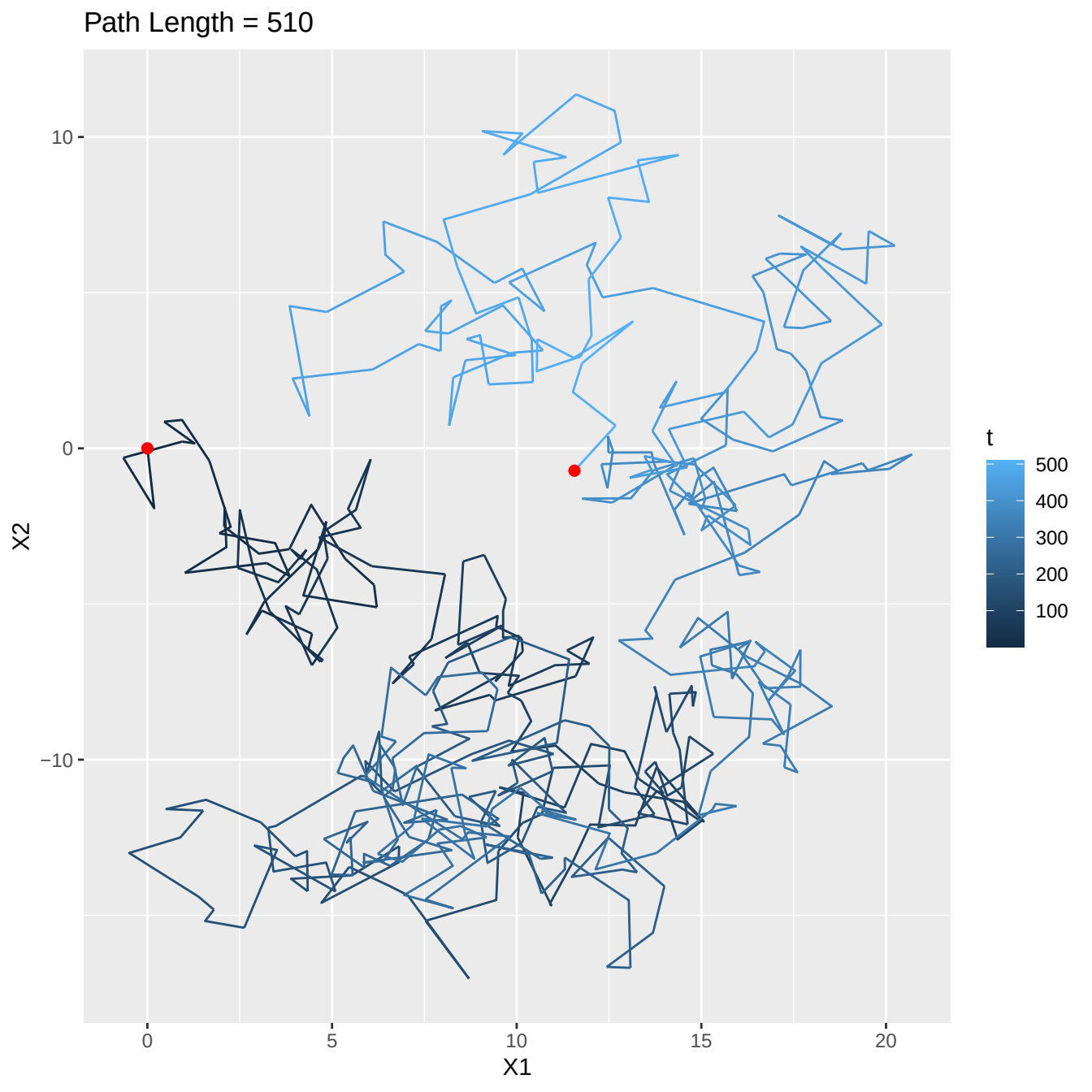
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X1
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200
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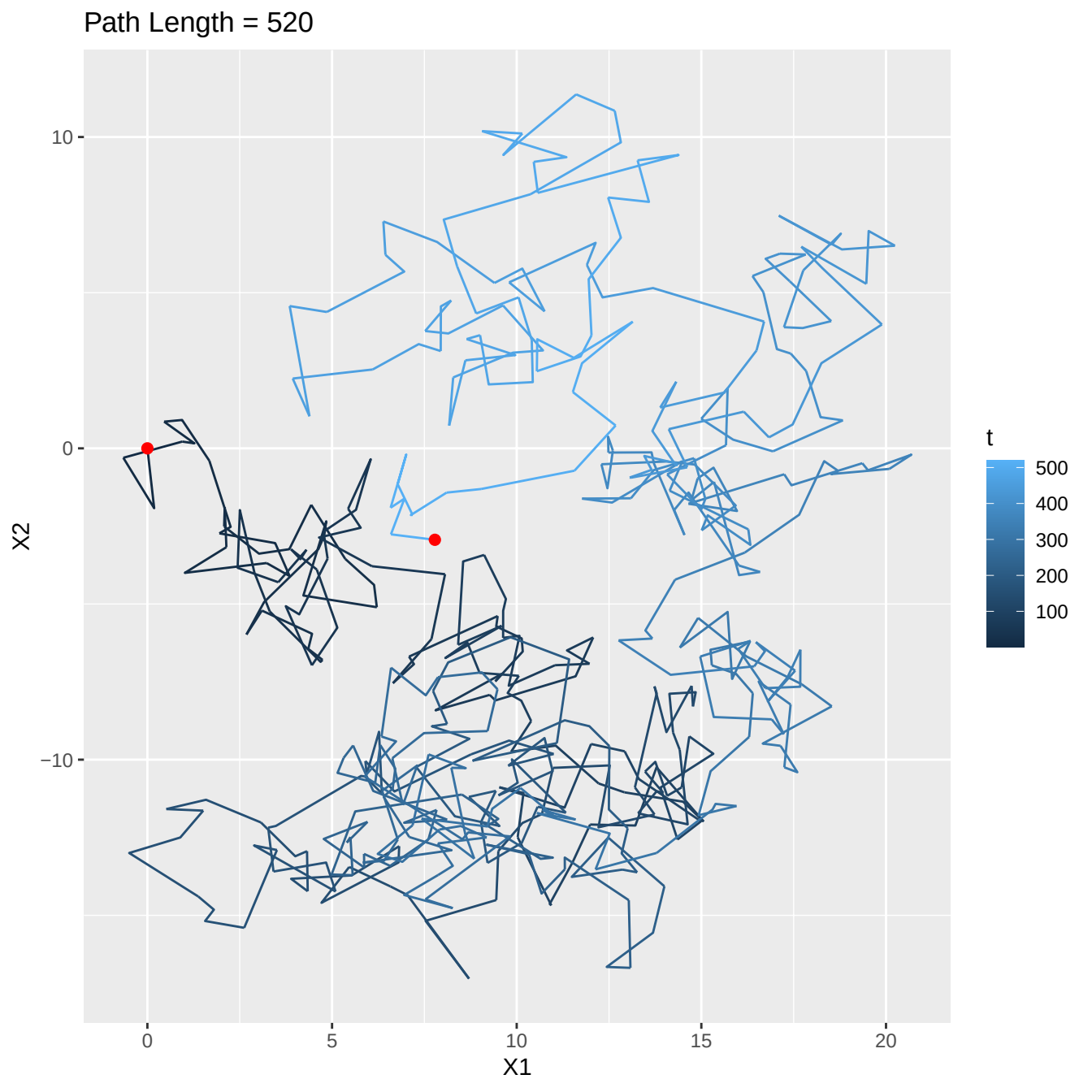
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X1
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200
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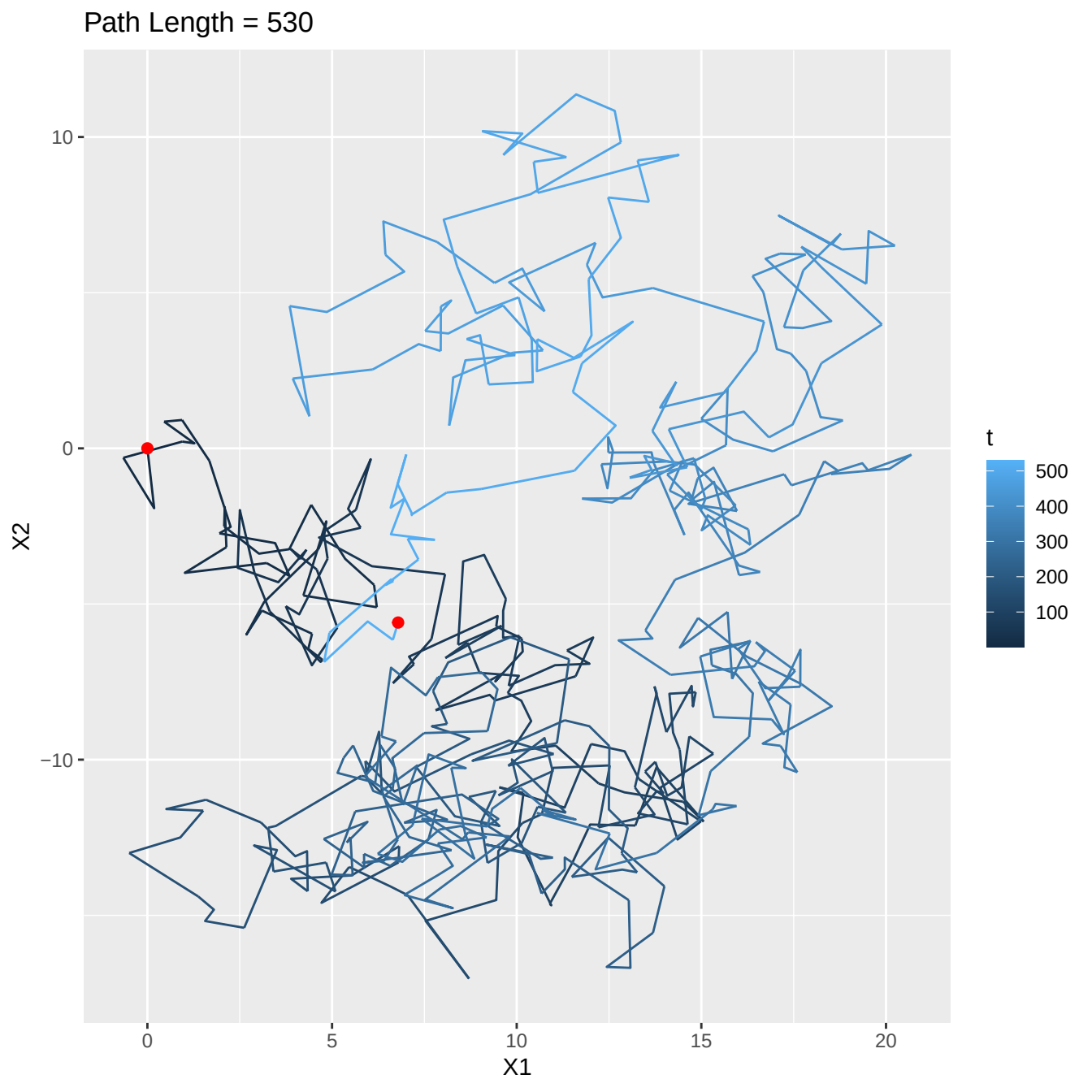
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X2
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5
10
15
20
X1
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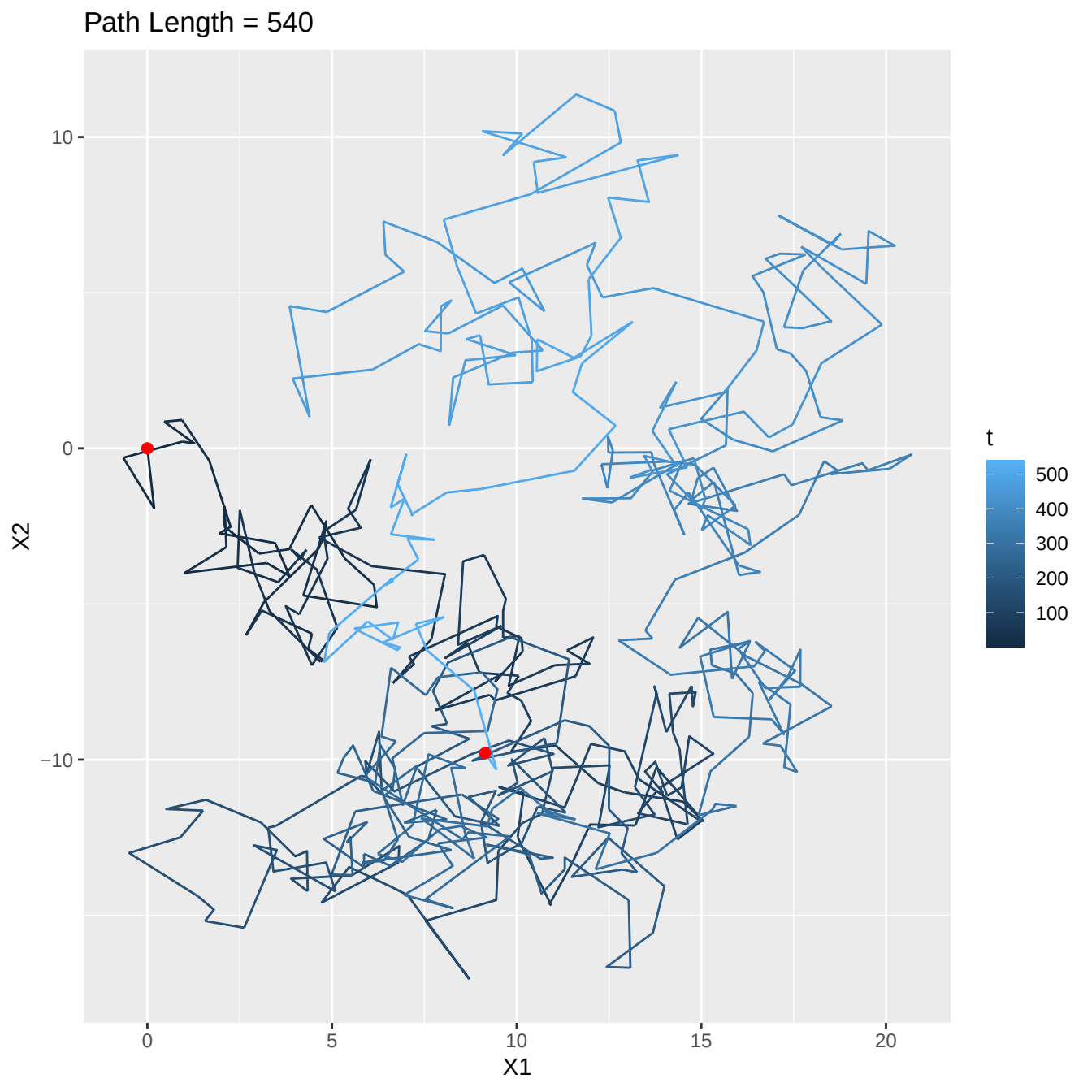
500
400
300
200
100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X2
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5
10
15
20
X1
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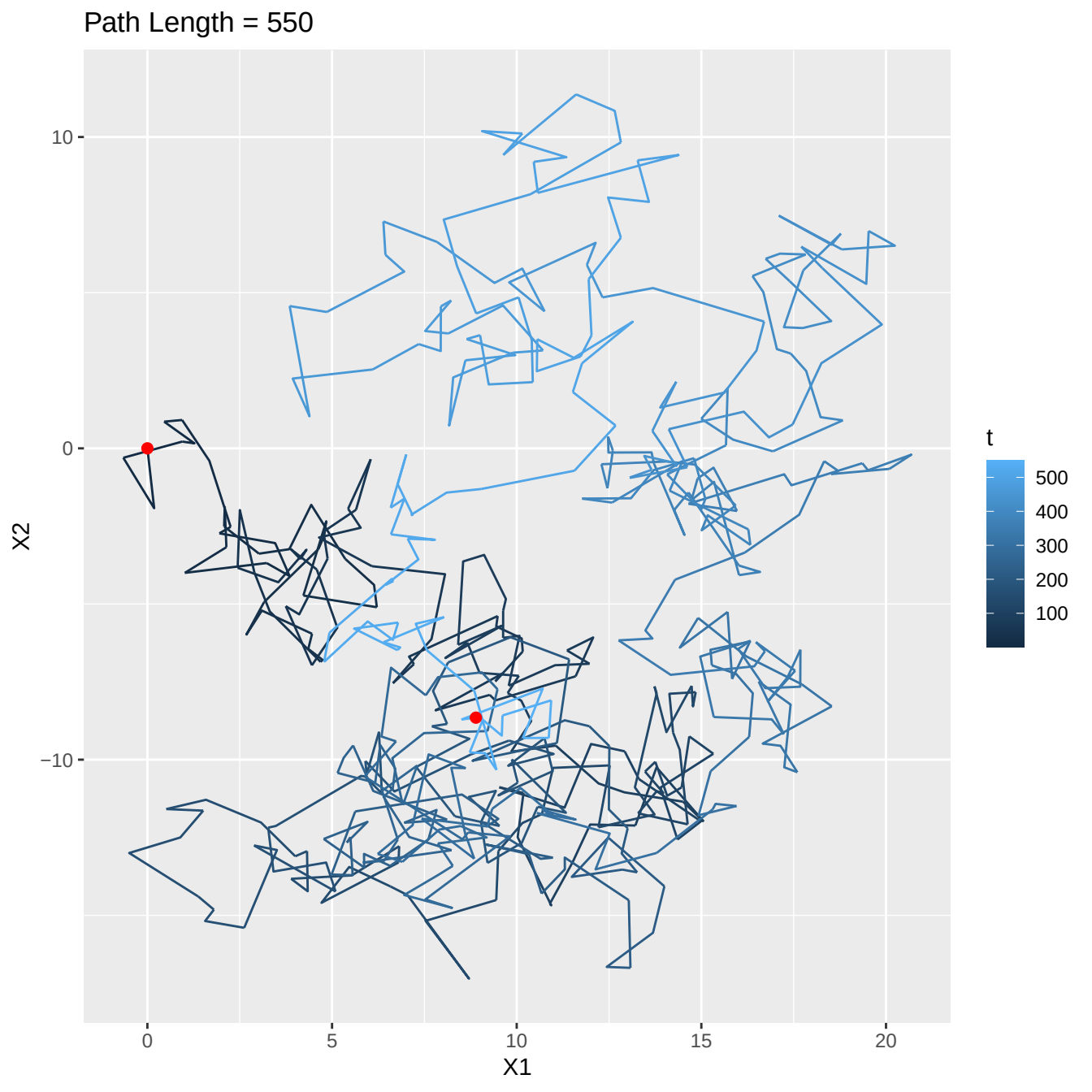
400
300
200
100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X2
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X1
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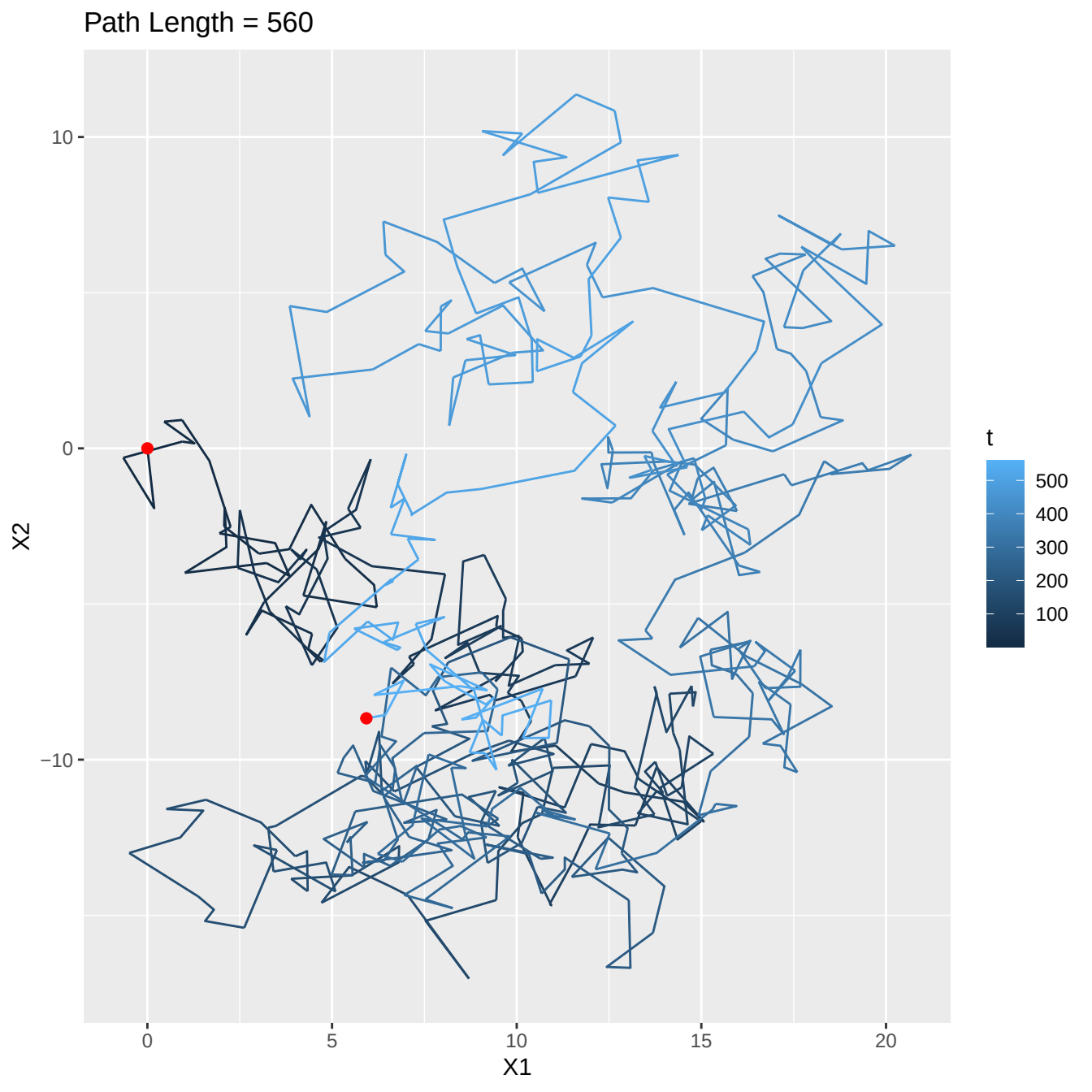
200
100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X2
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X1
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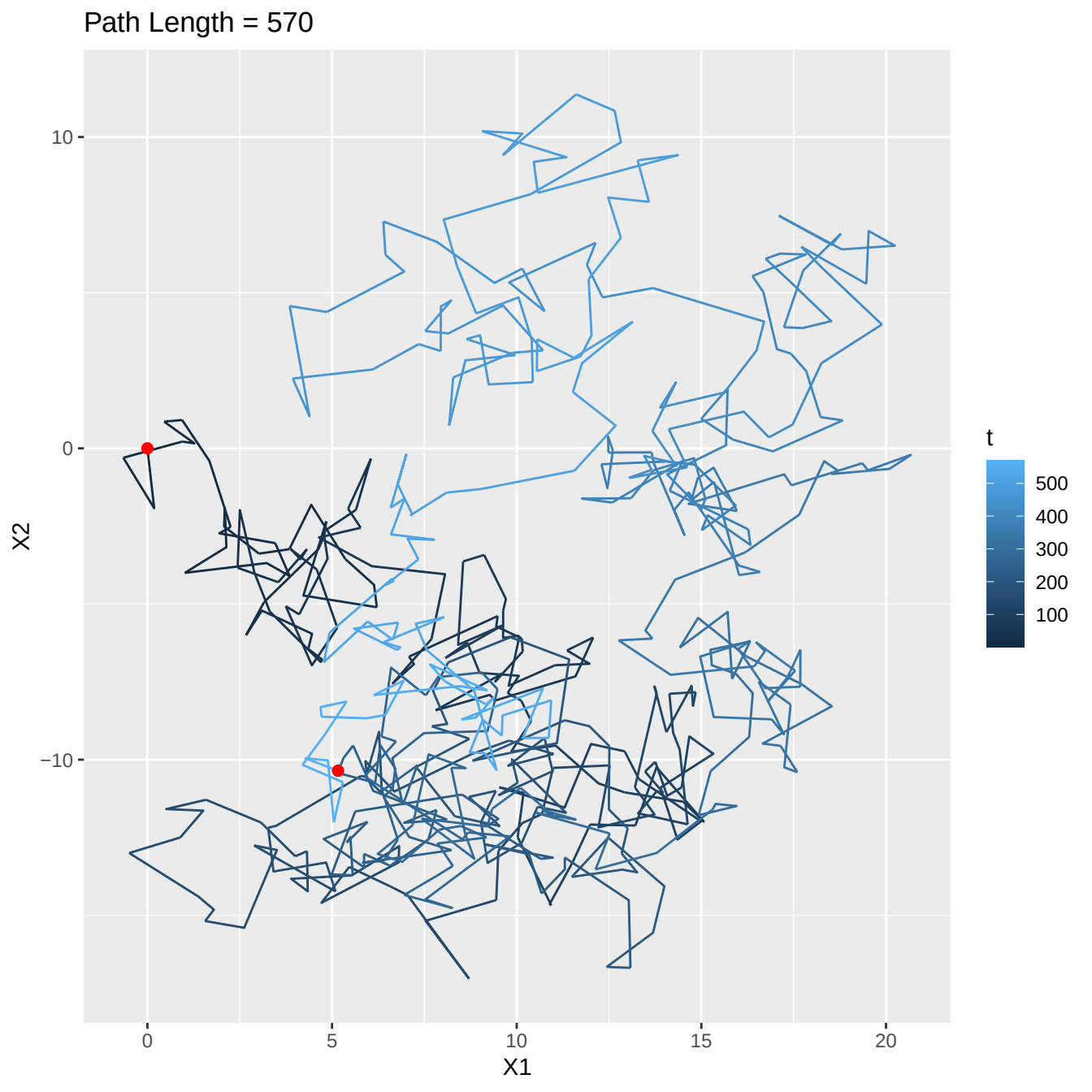
400
300
200
100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X2
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10
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20
X1
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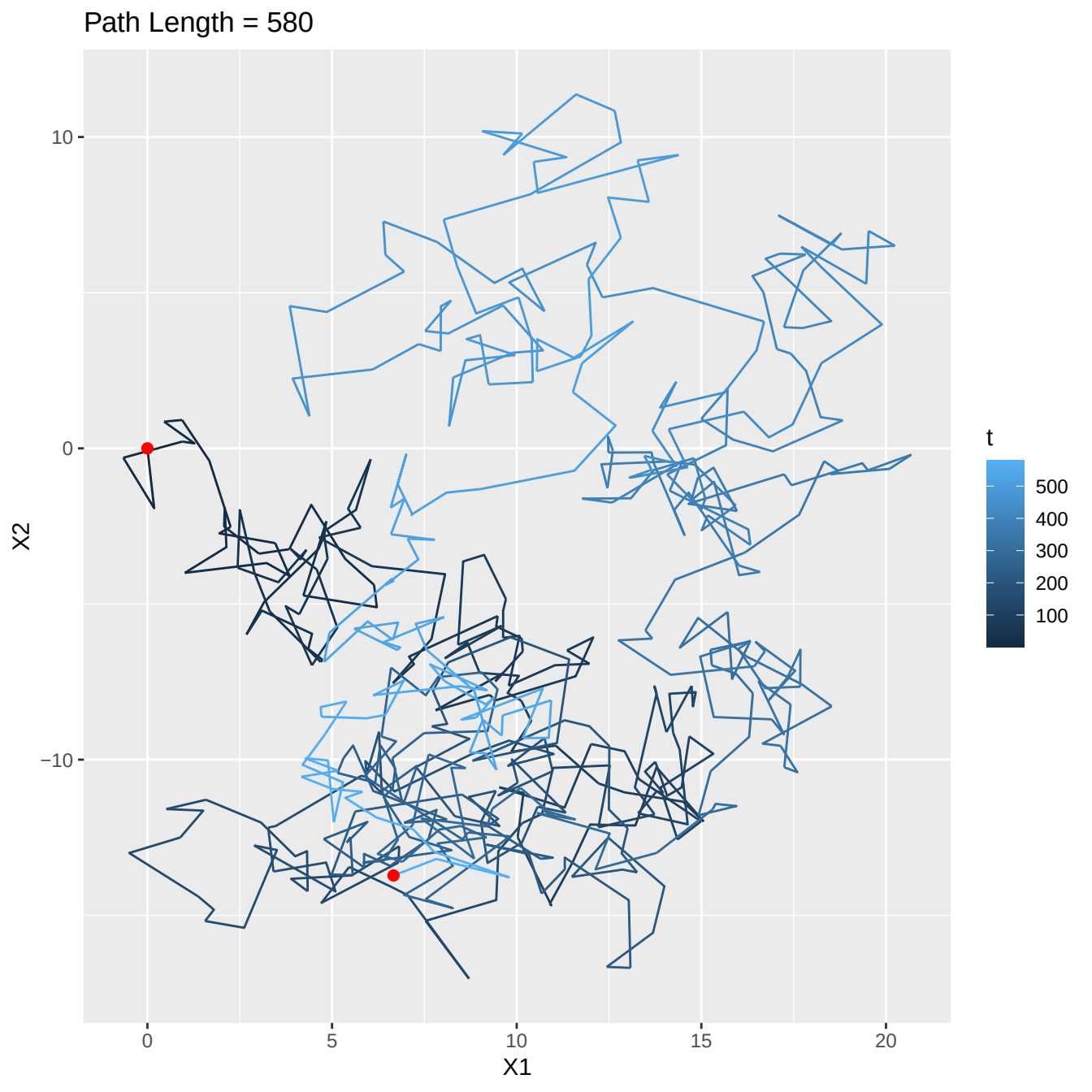
400
300
200
100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X1
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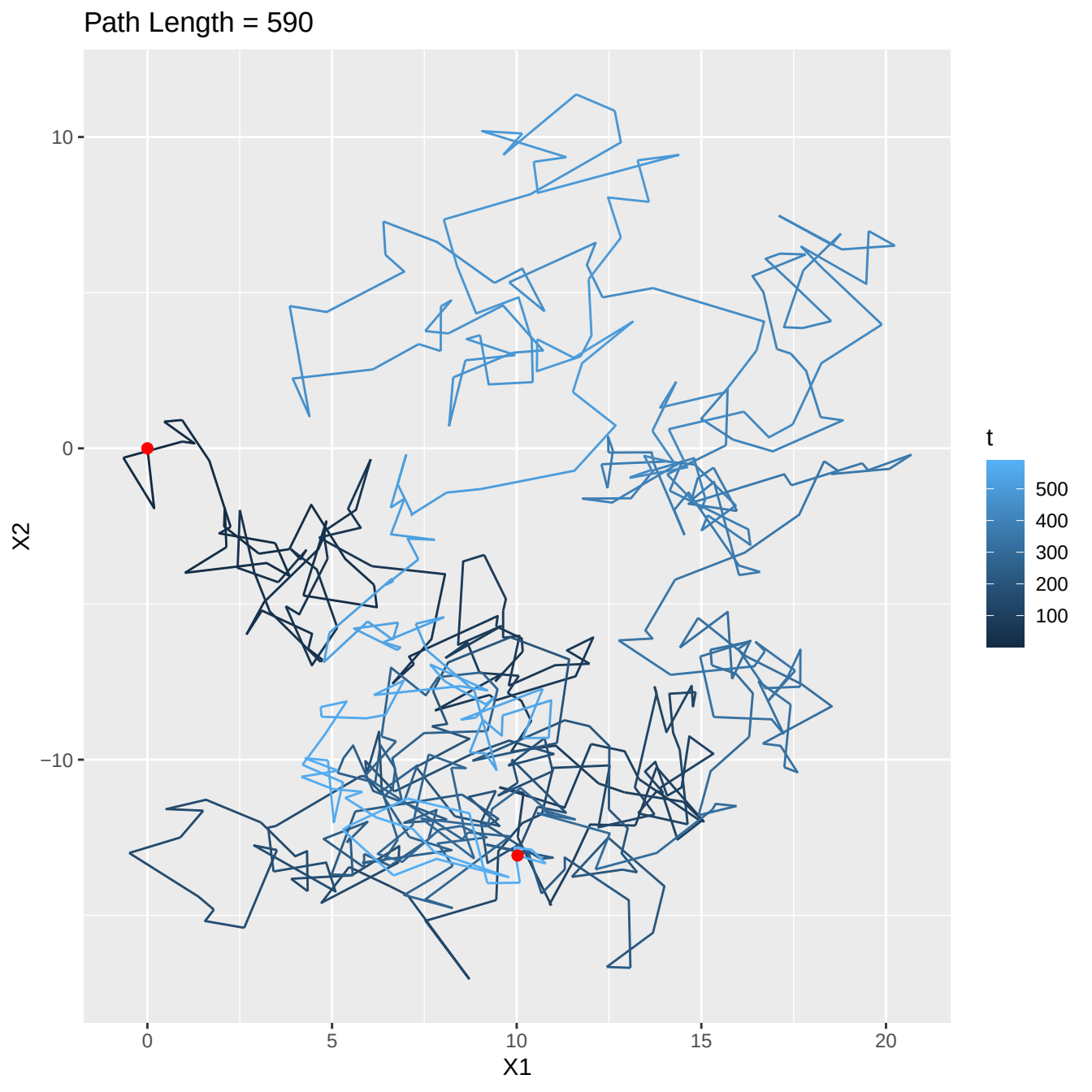
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X2
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20
X1
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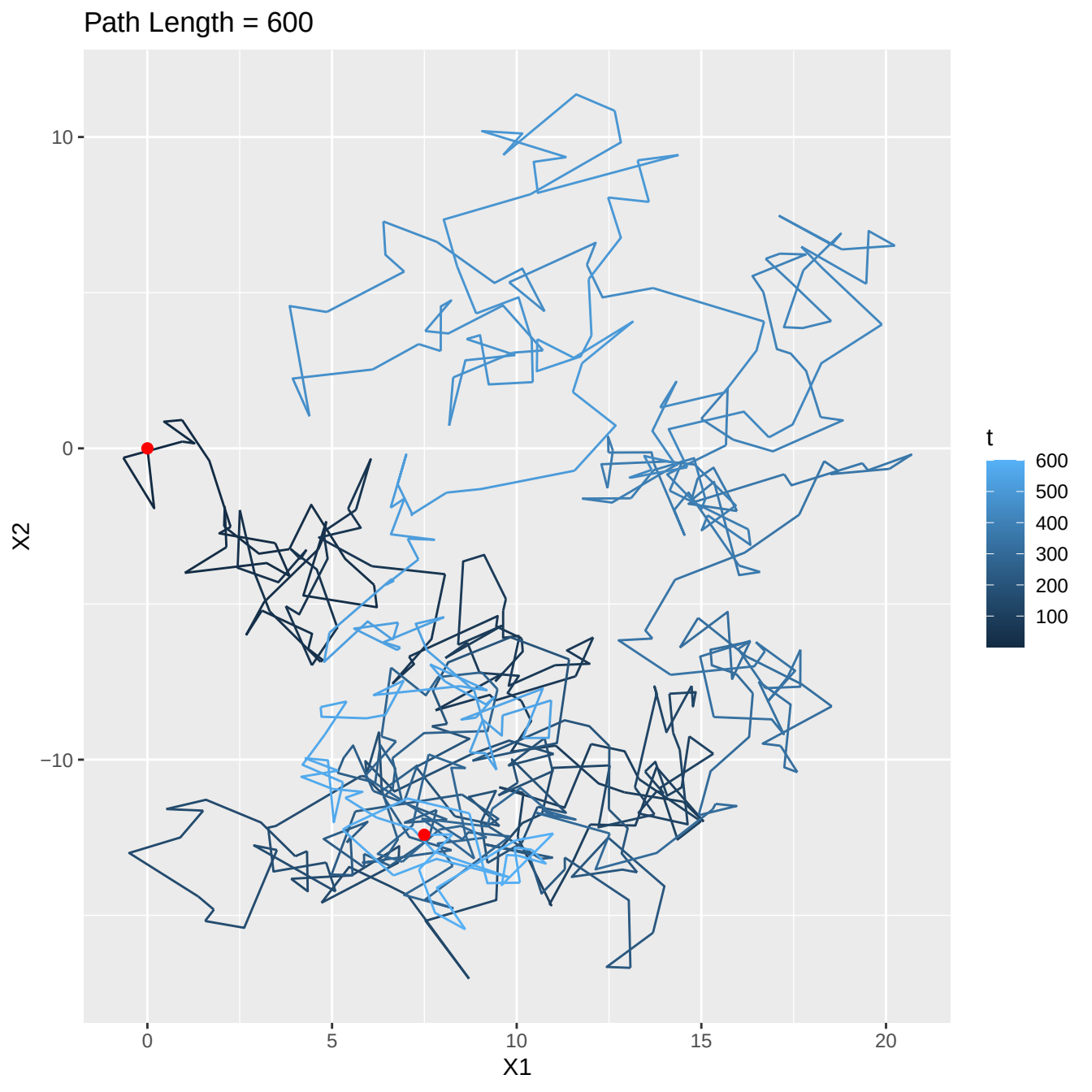
200
100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X1
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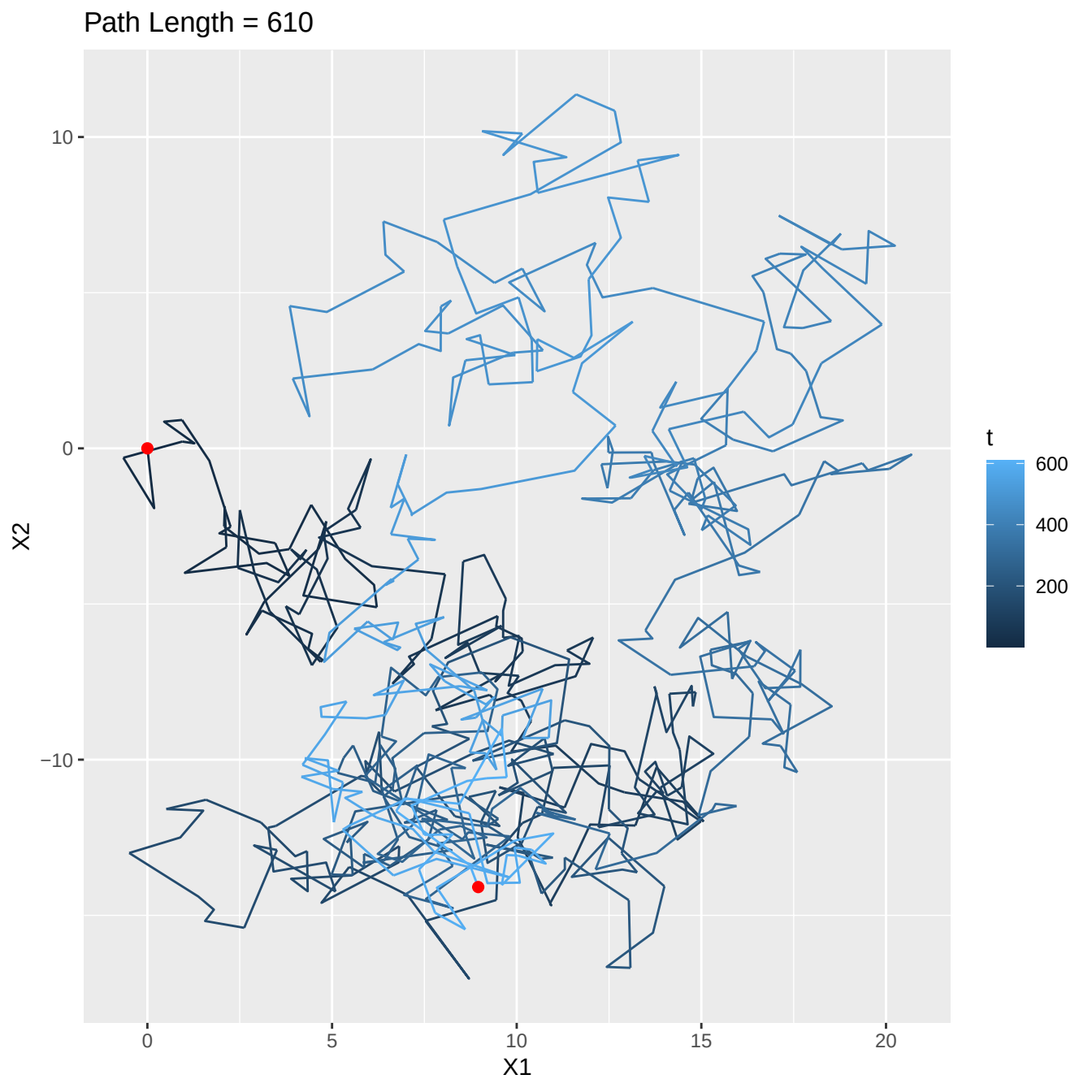
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X1
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400
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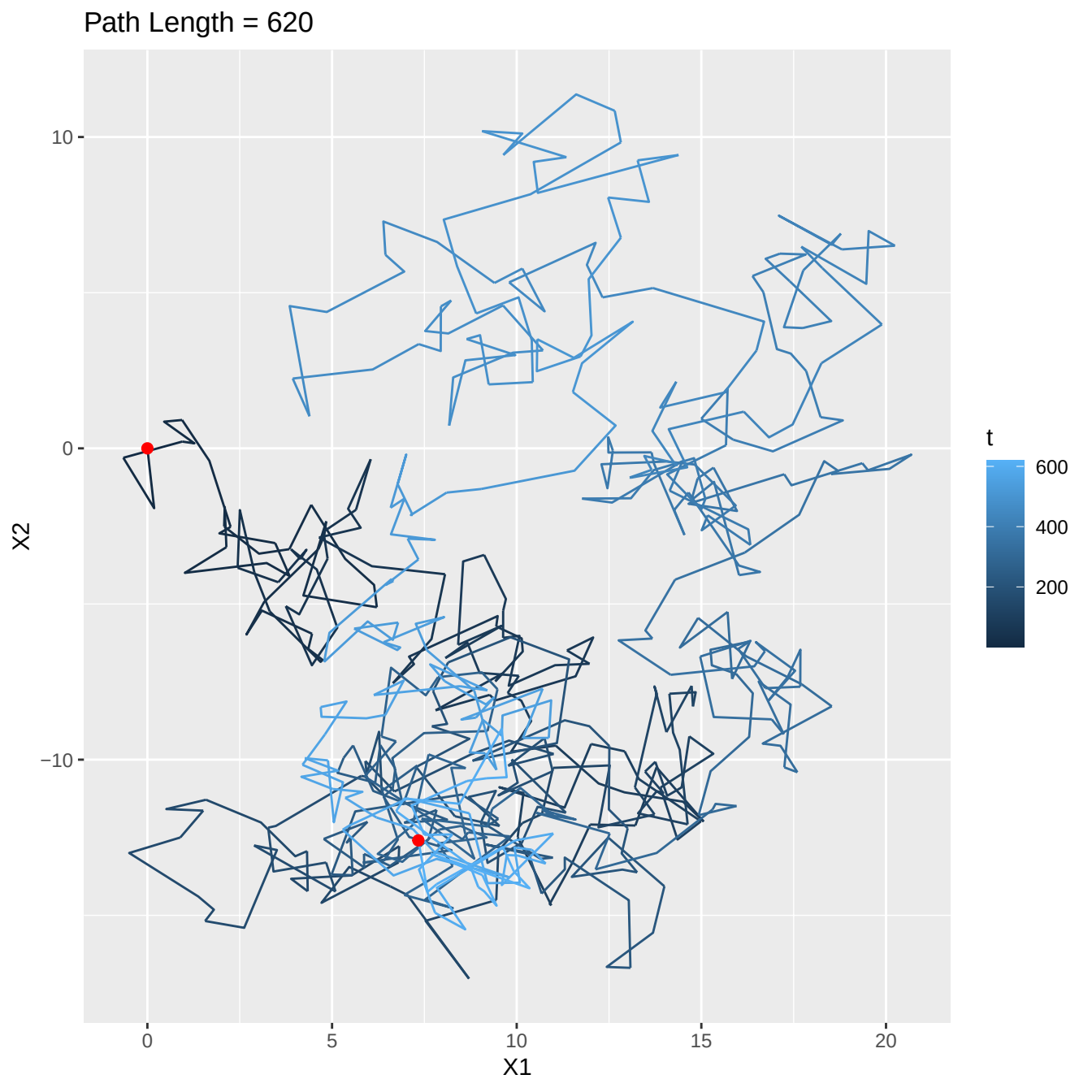
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X1
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400
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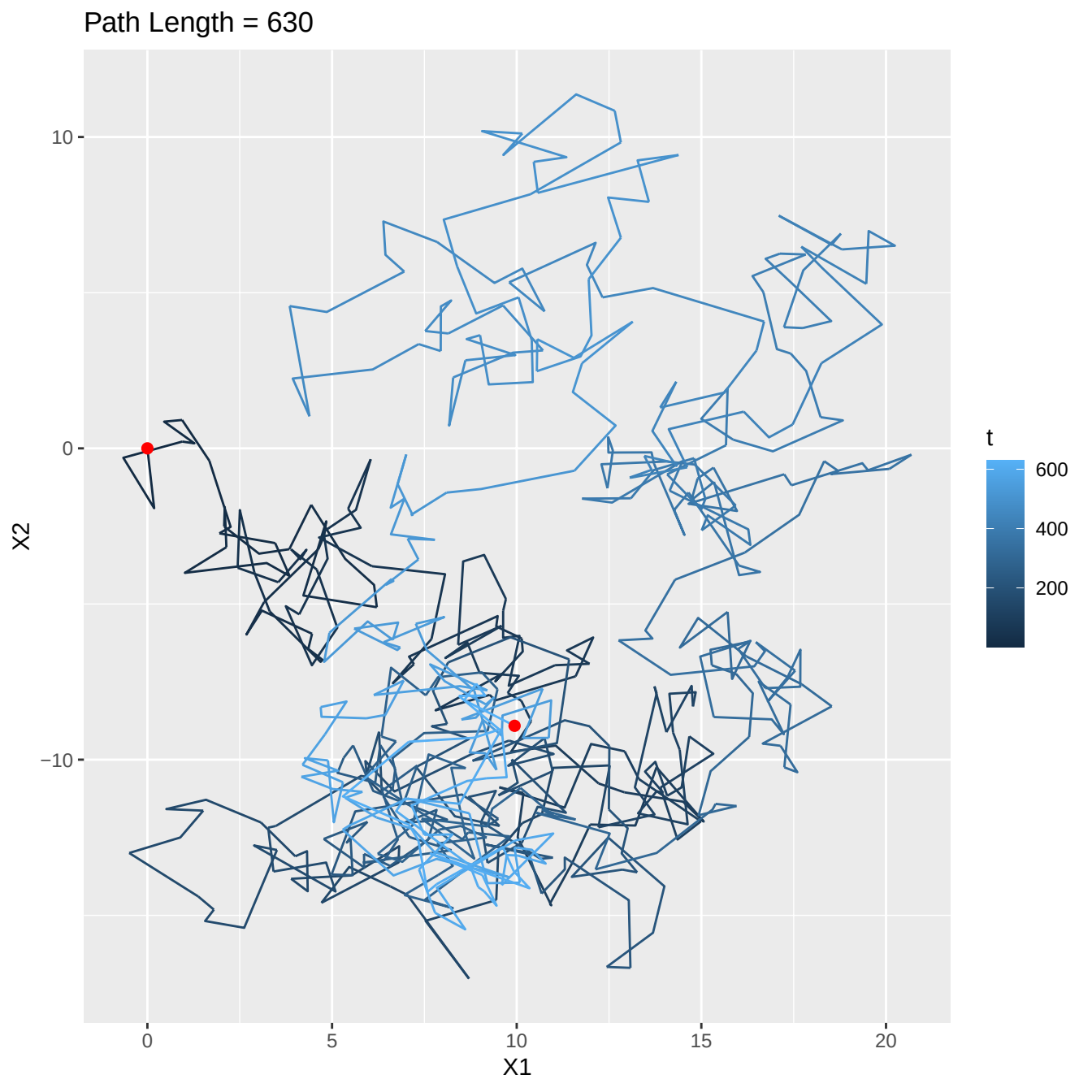
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X1
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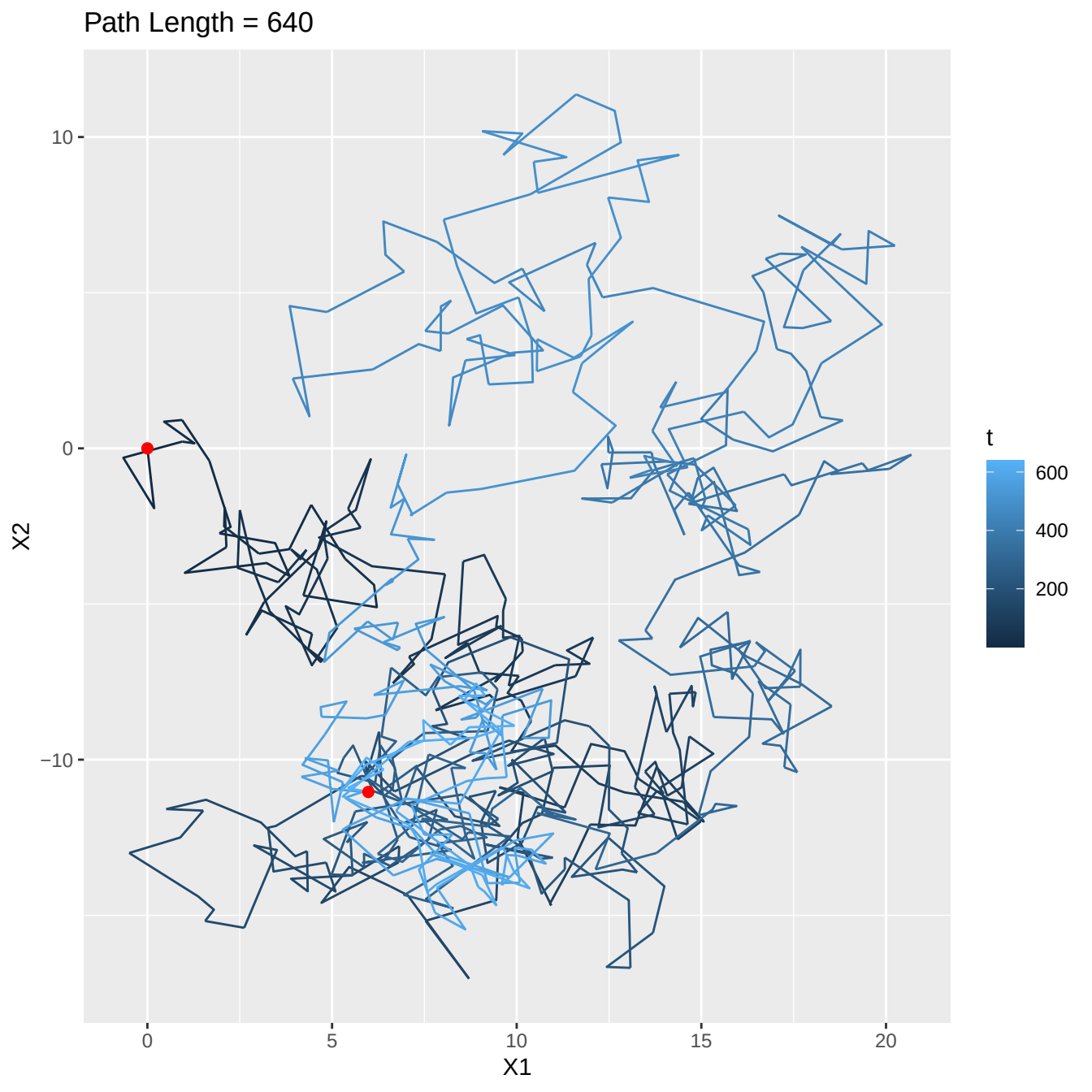
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X1
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400
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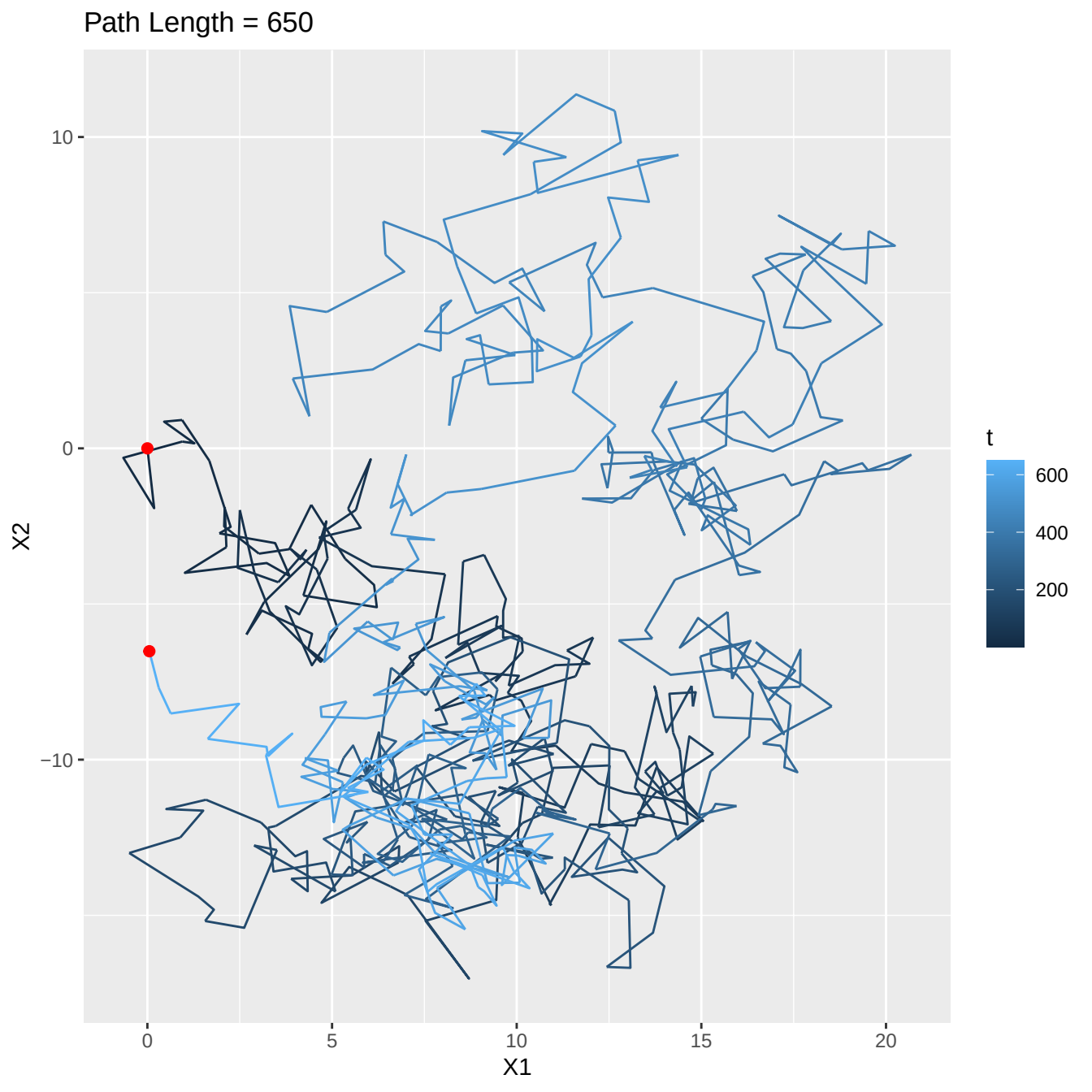
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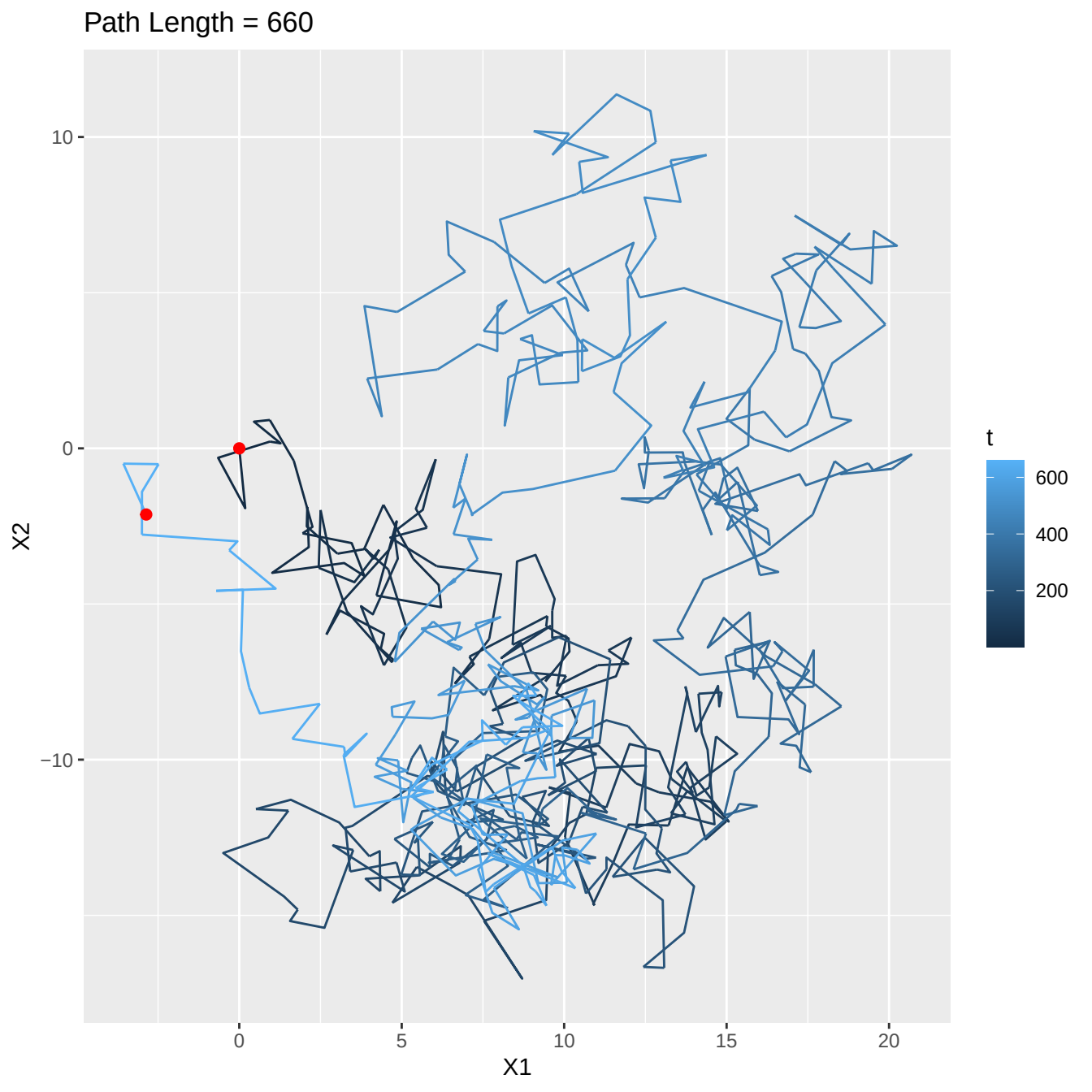
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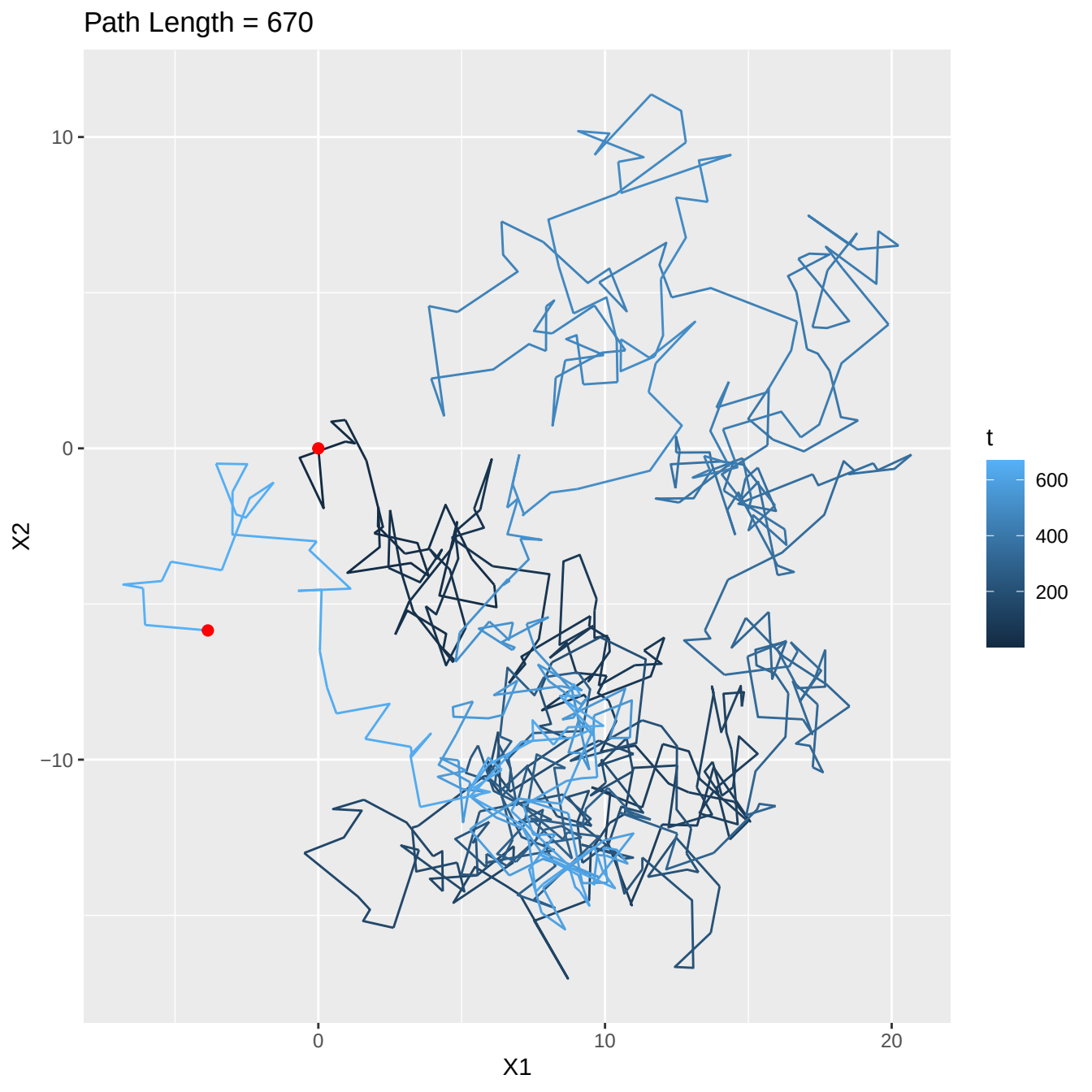
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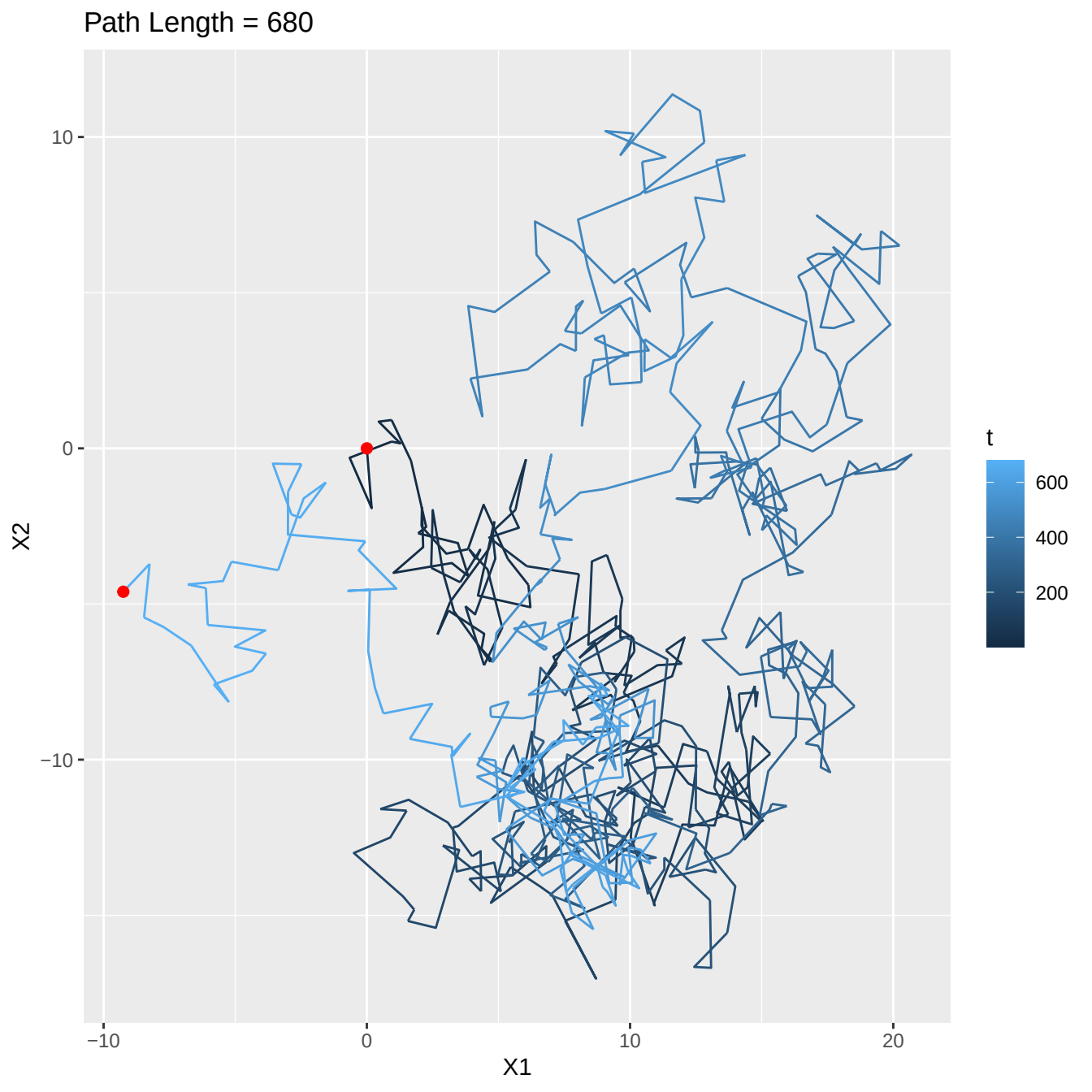
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X1
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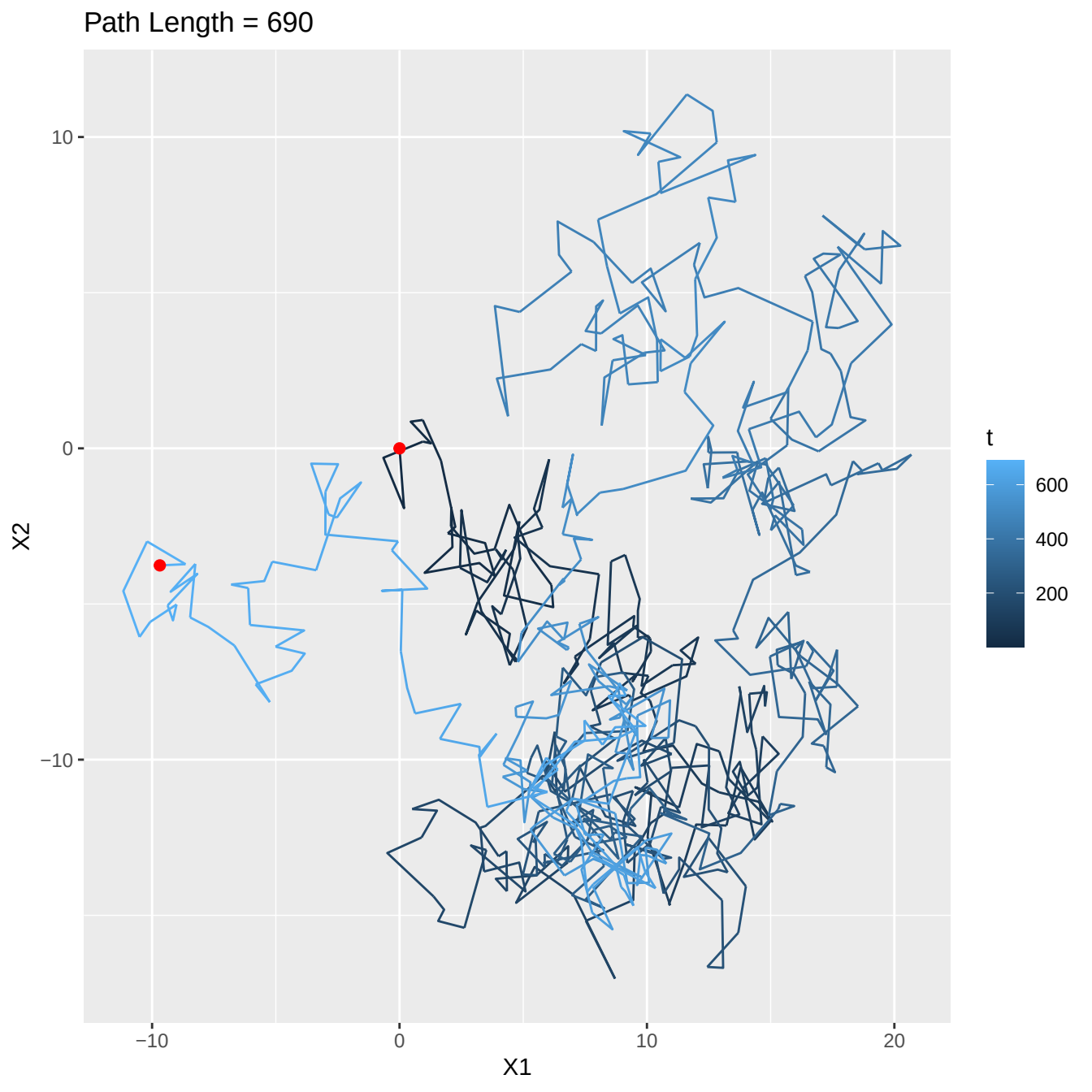
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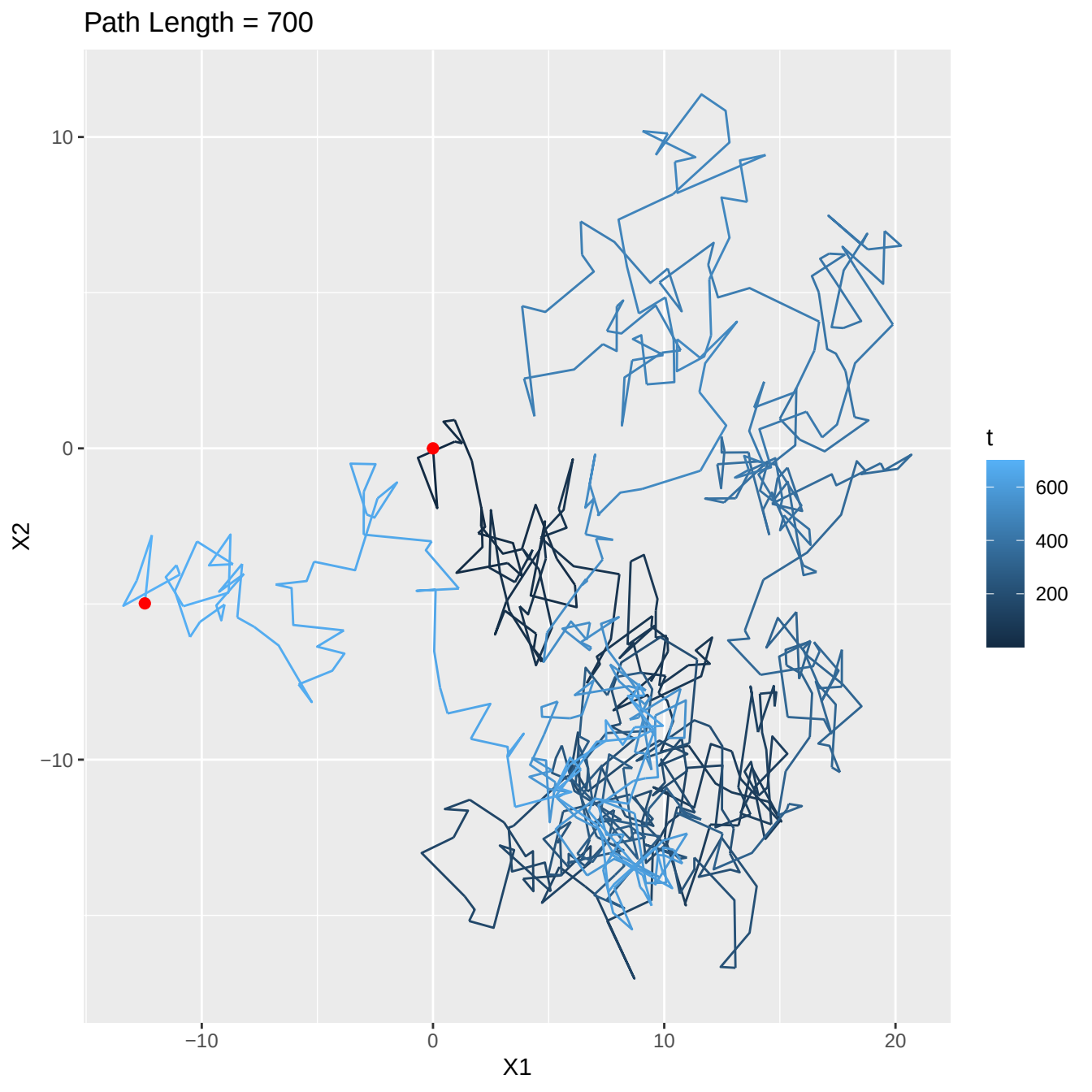
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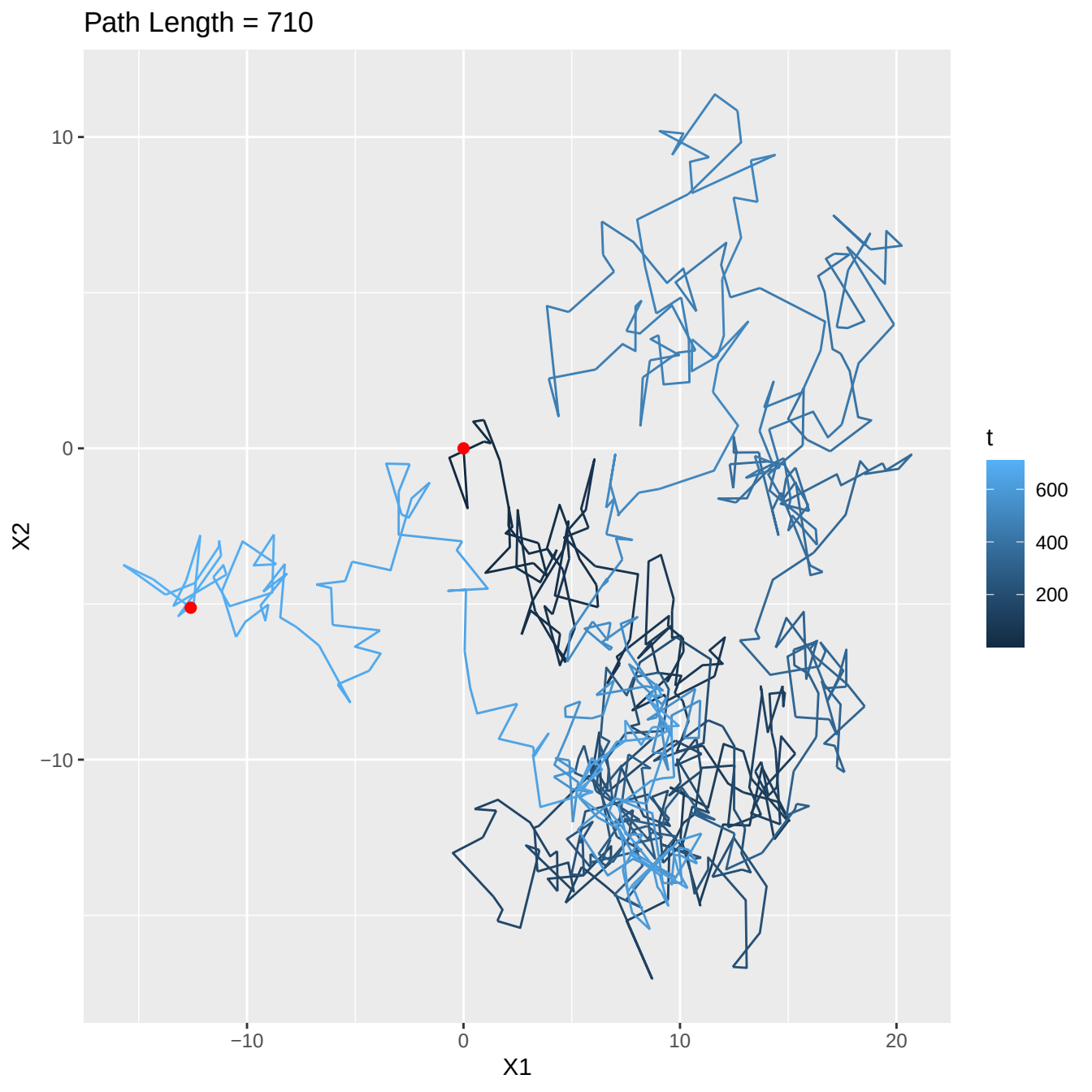
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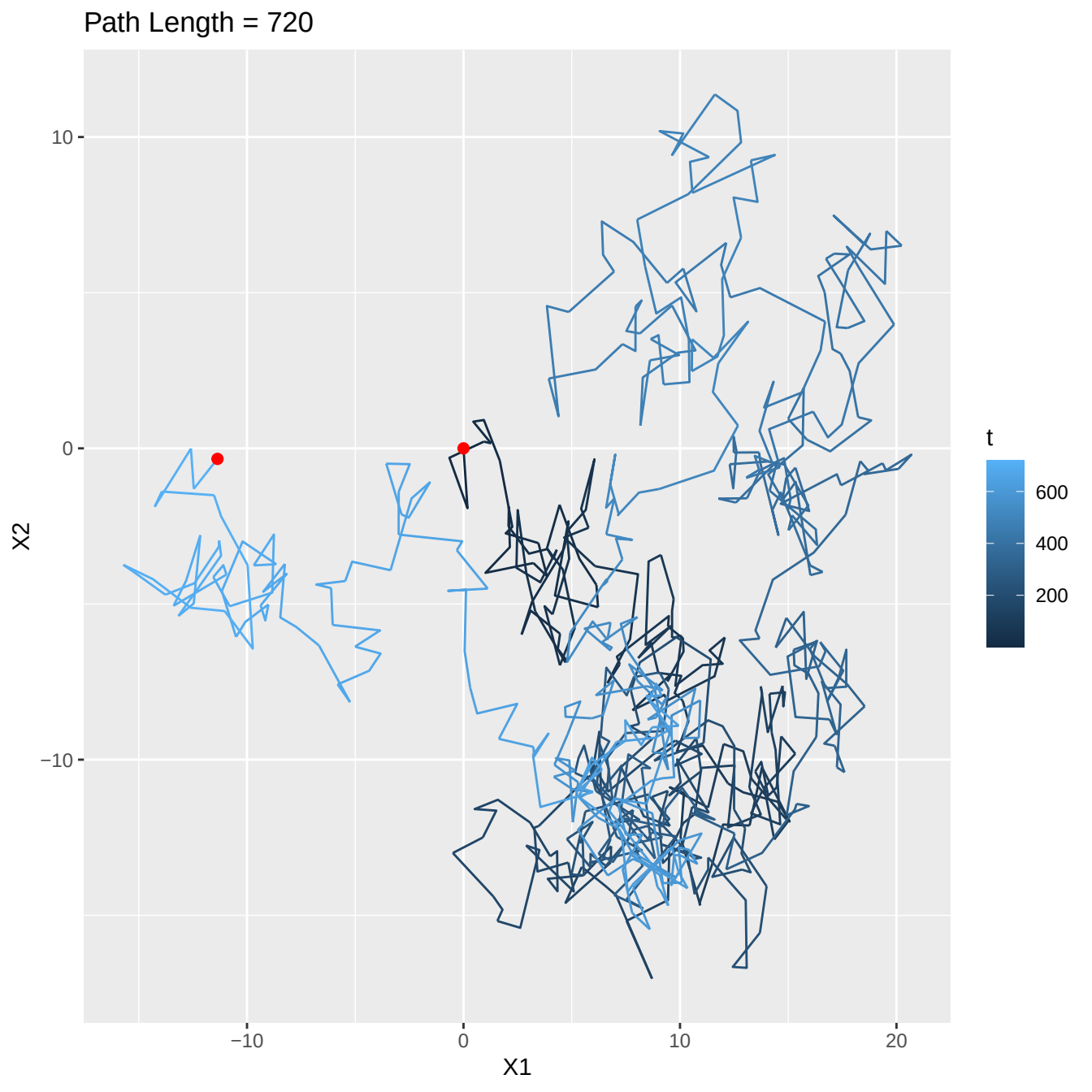
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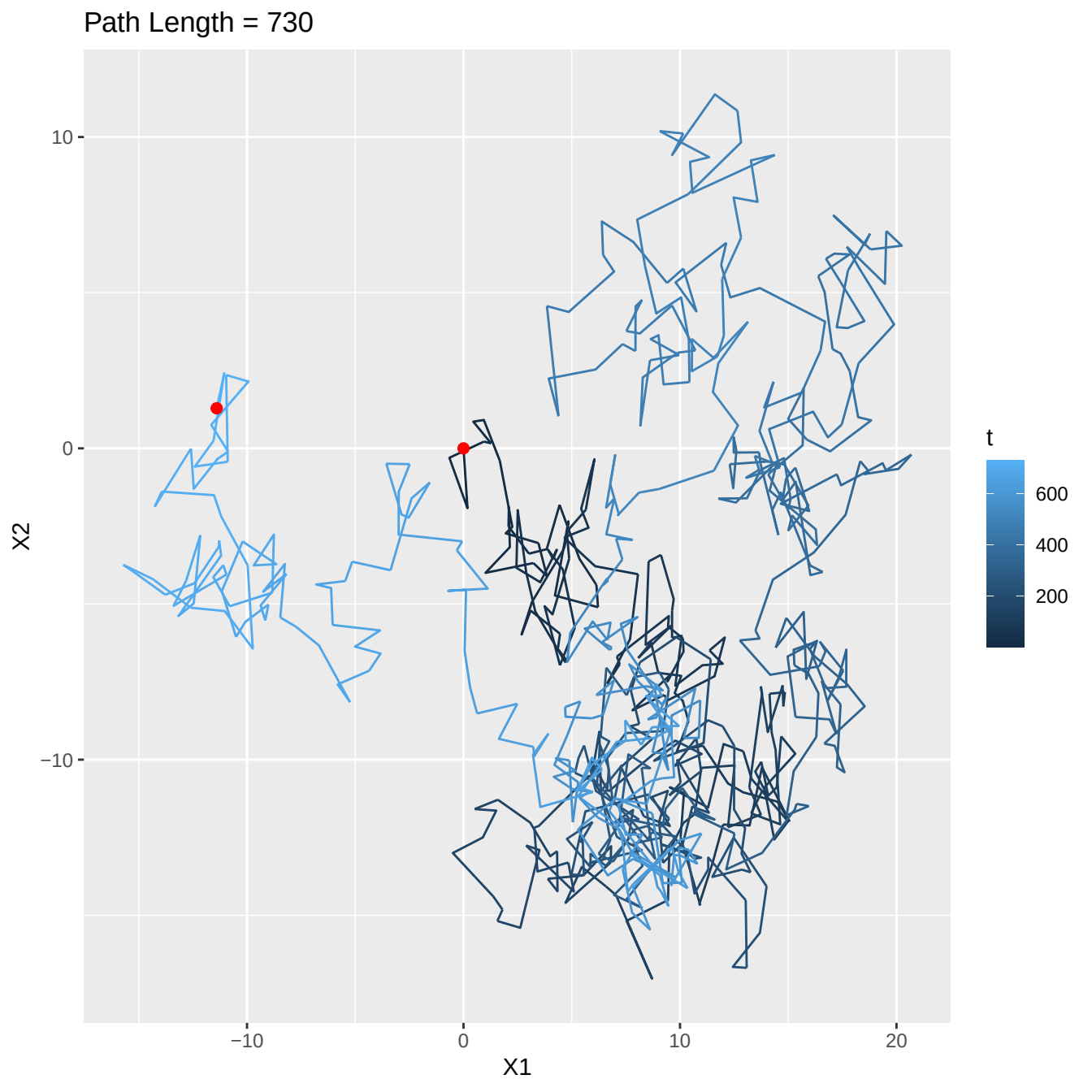
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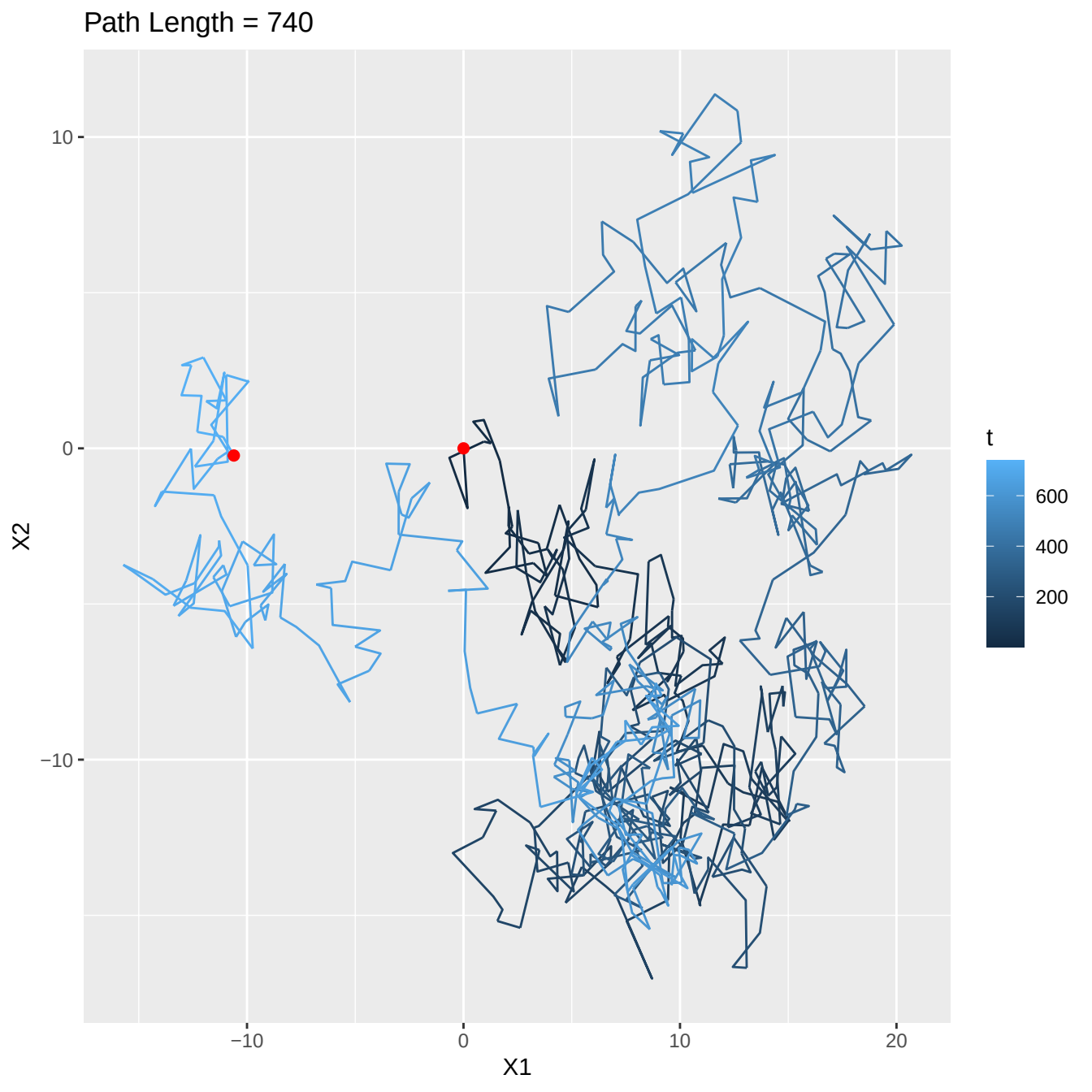
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X2
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X1
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400
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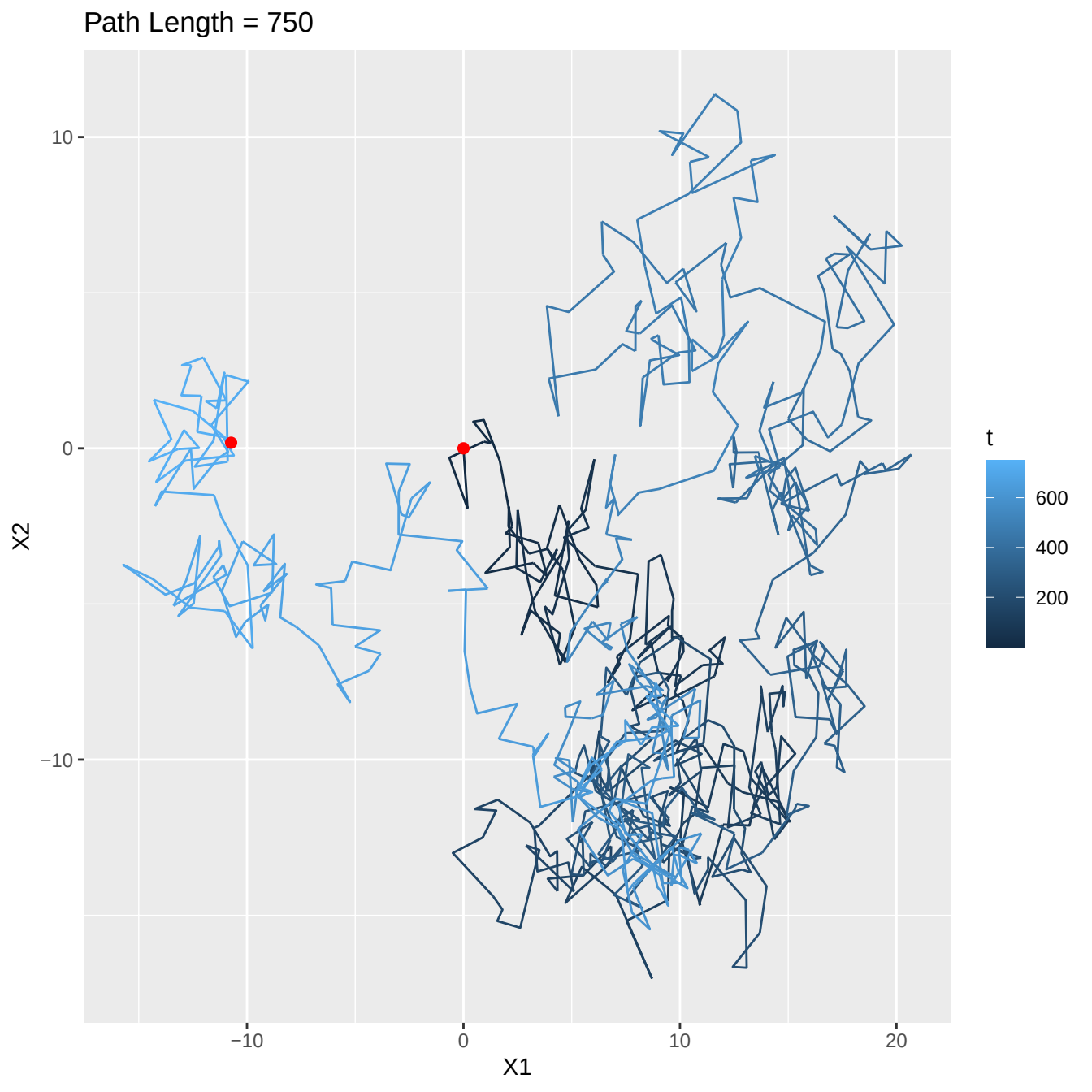
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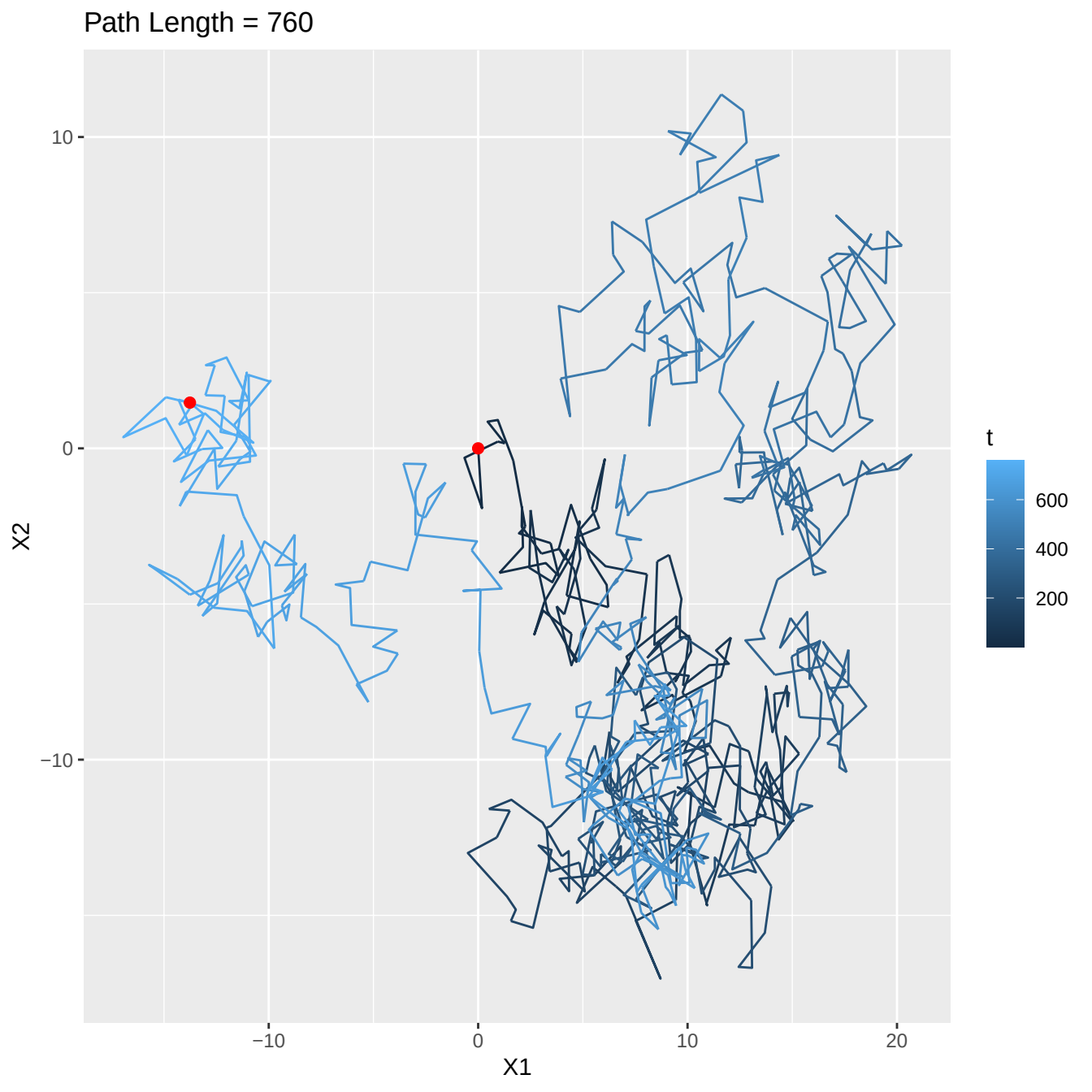
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X1
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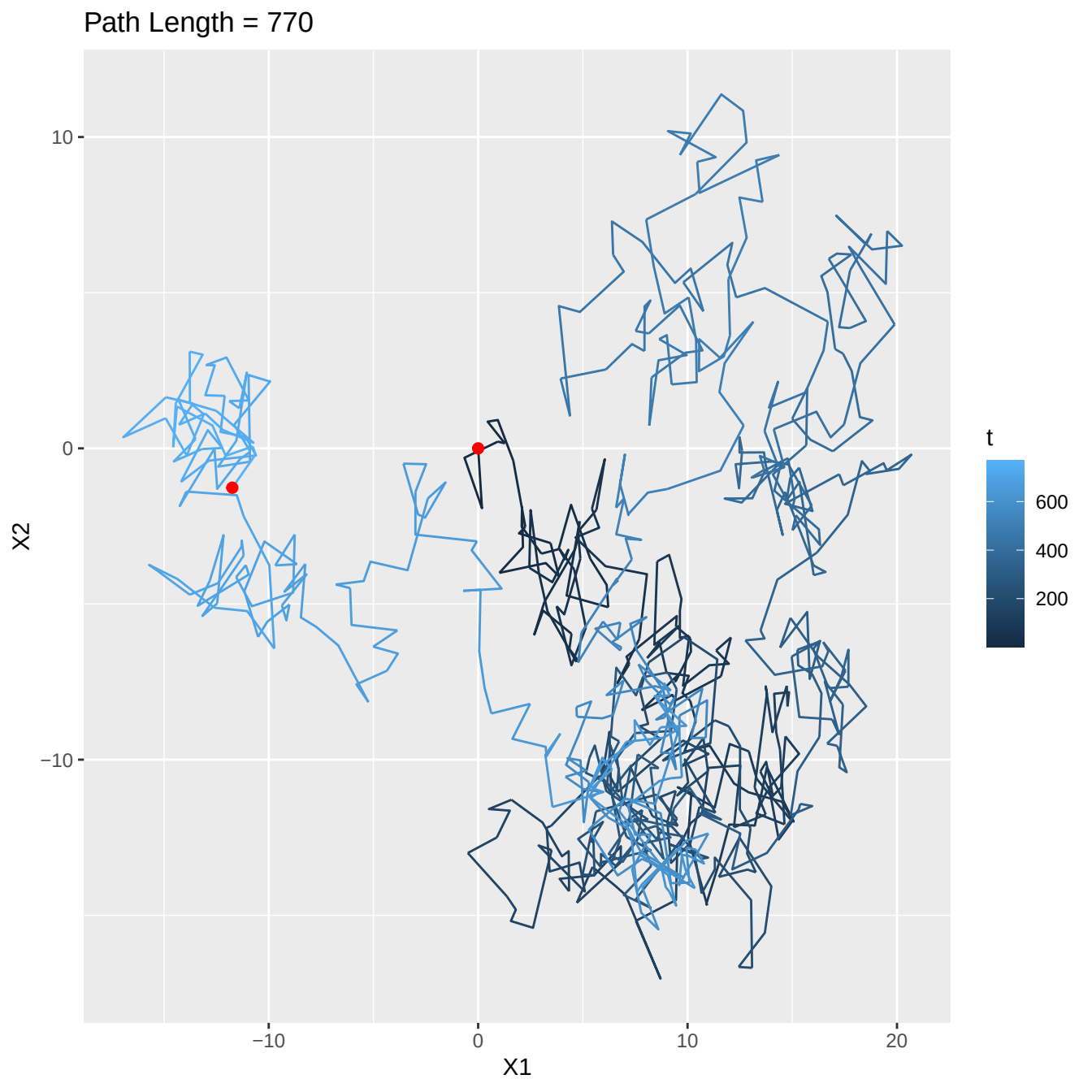
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X2
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X1
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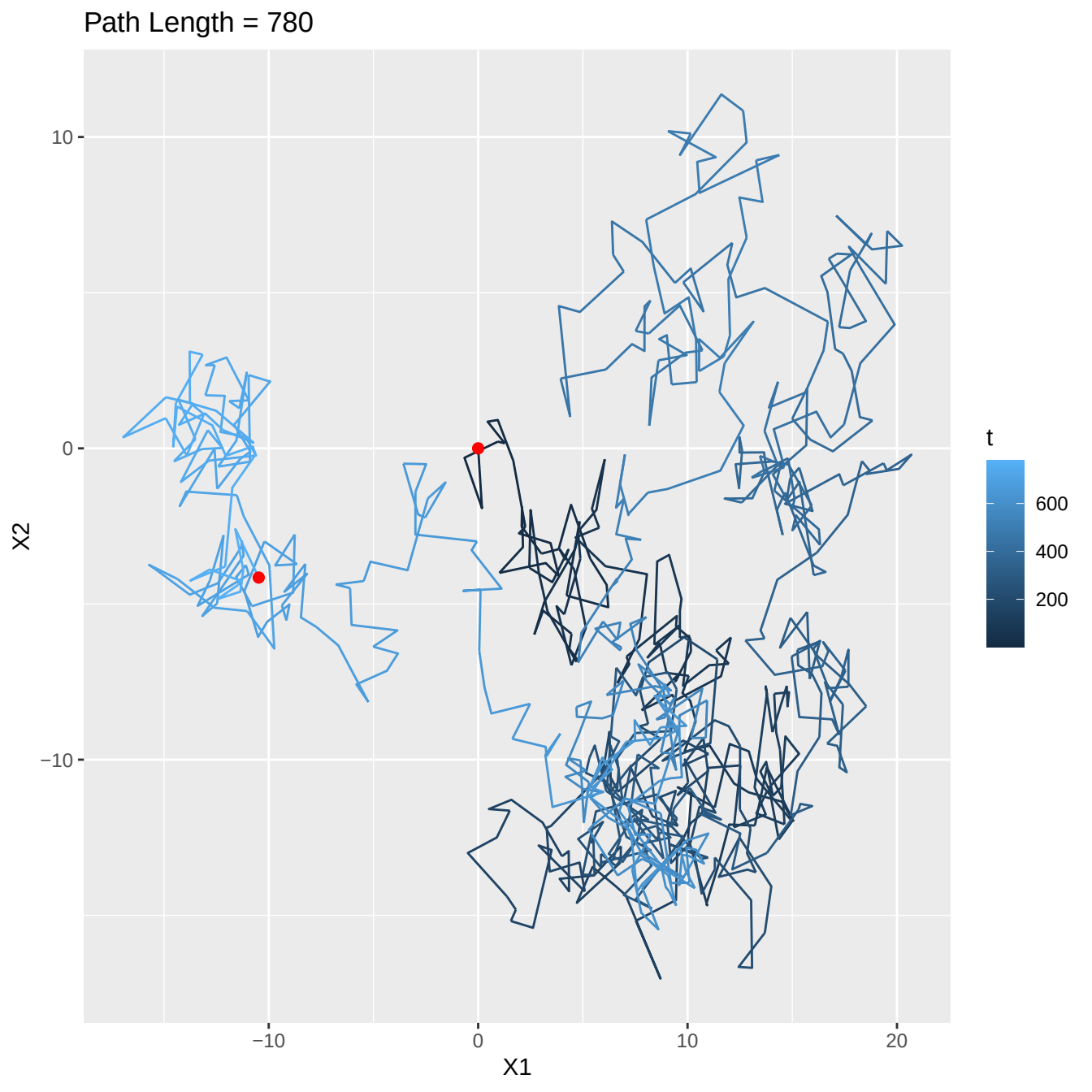
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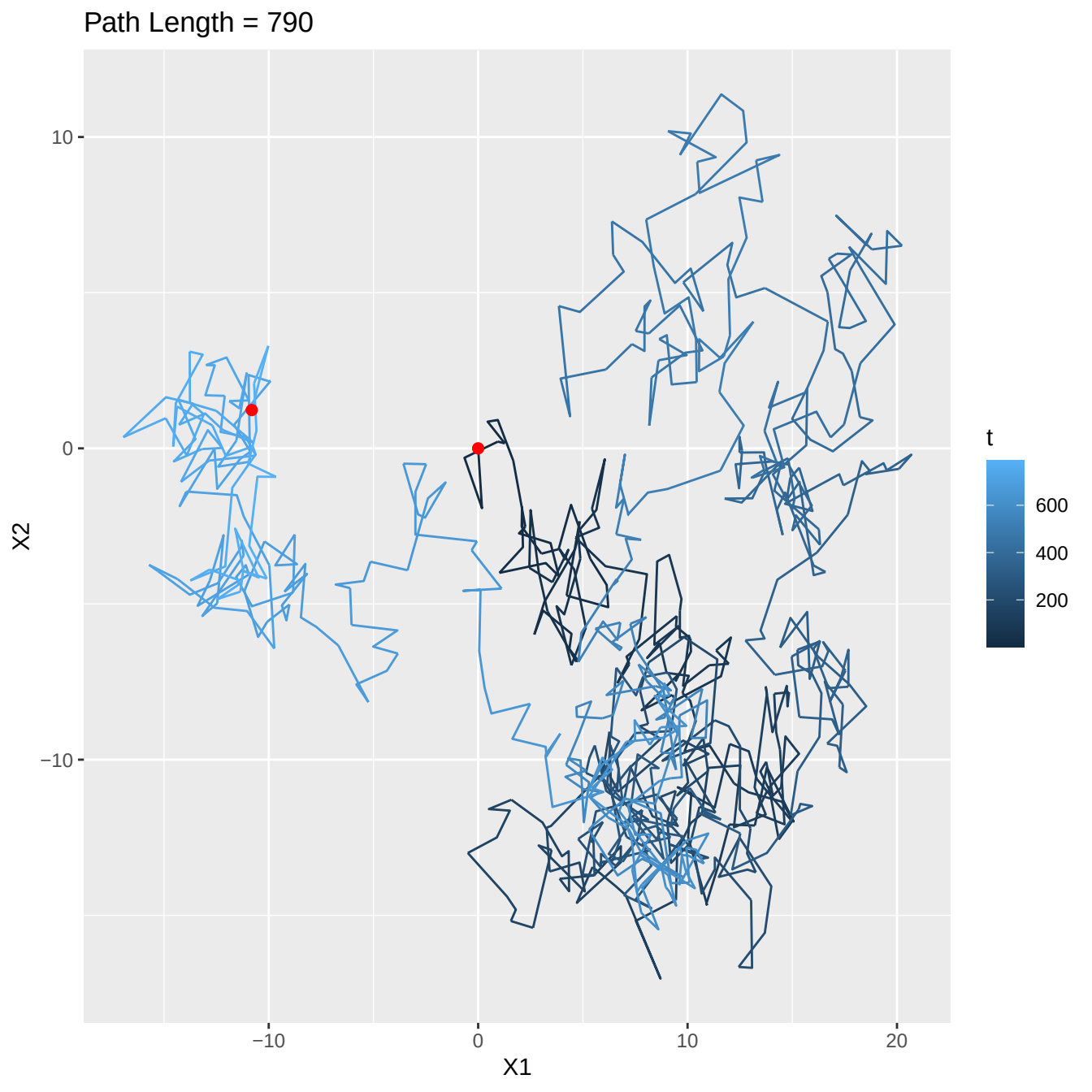
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X1
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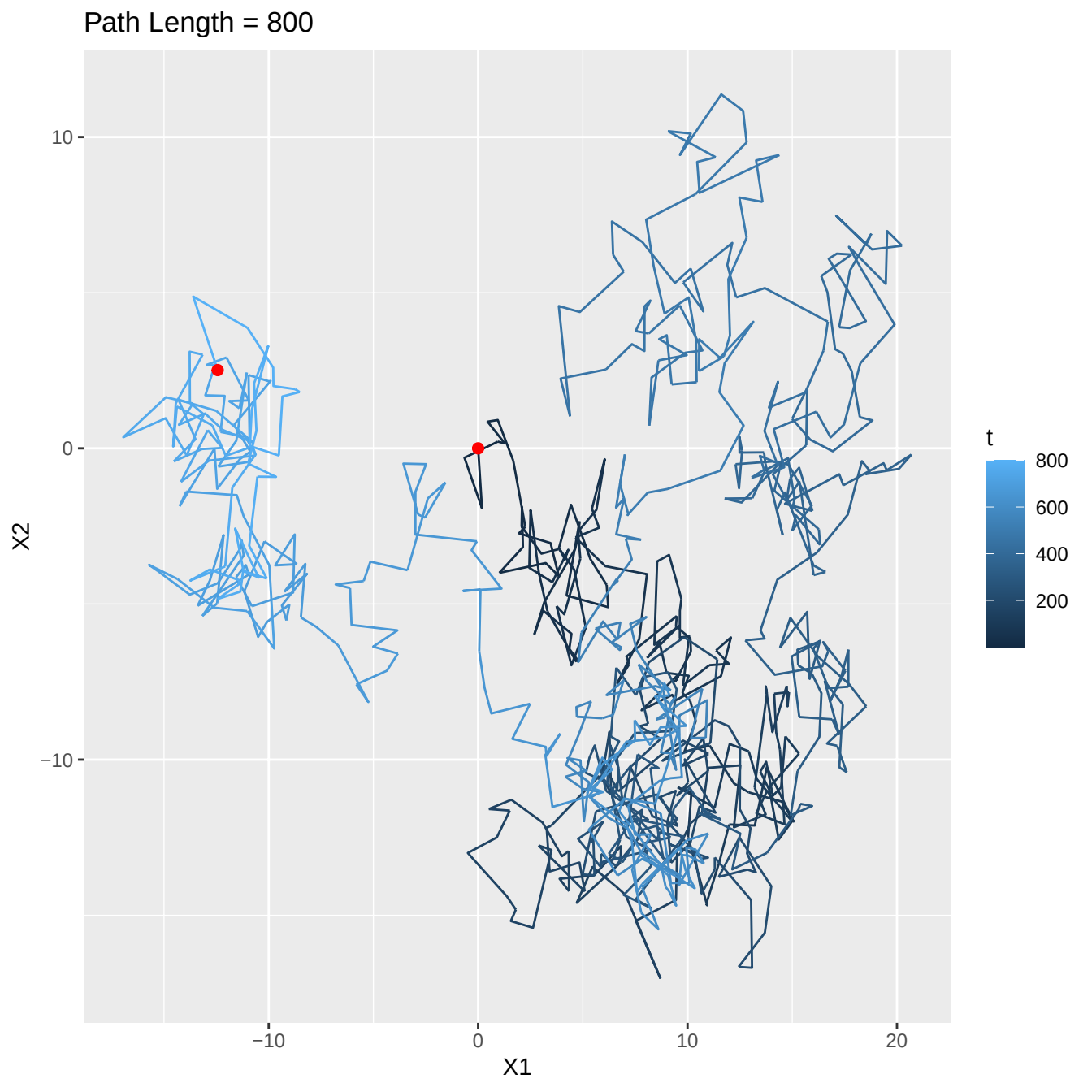
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X2
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X1
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400
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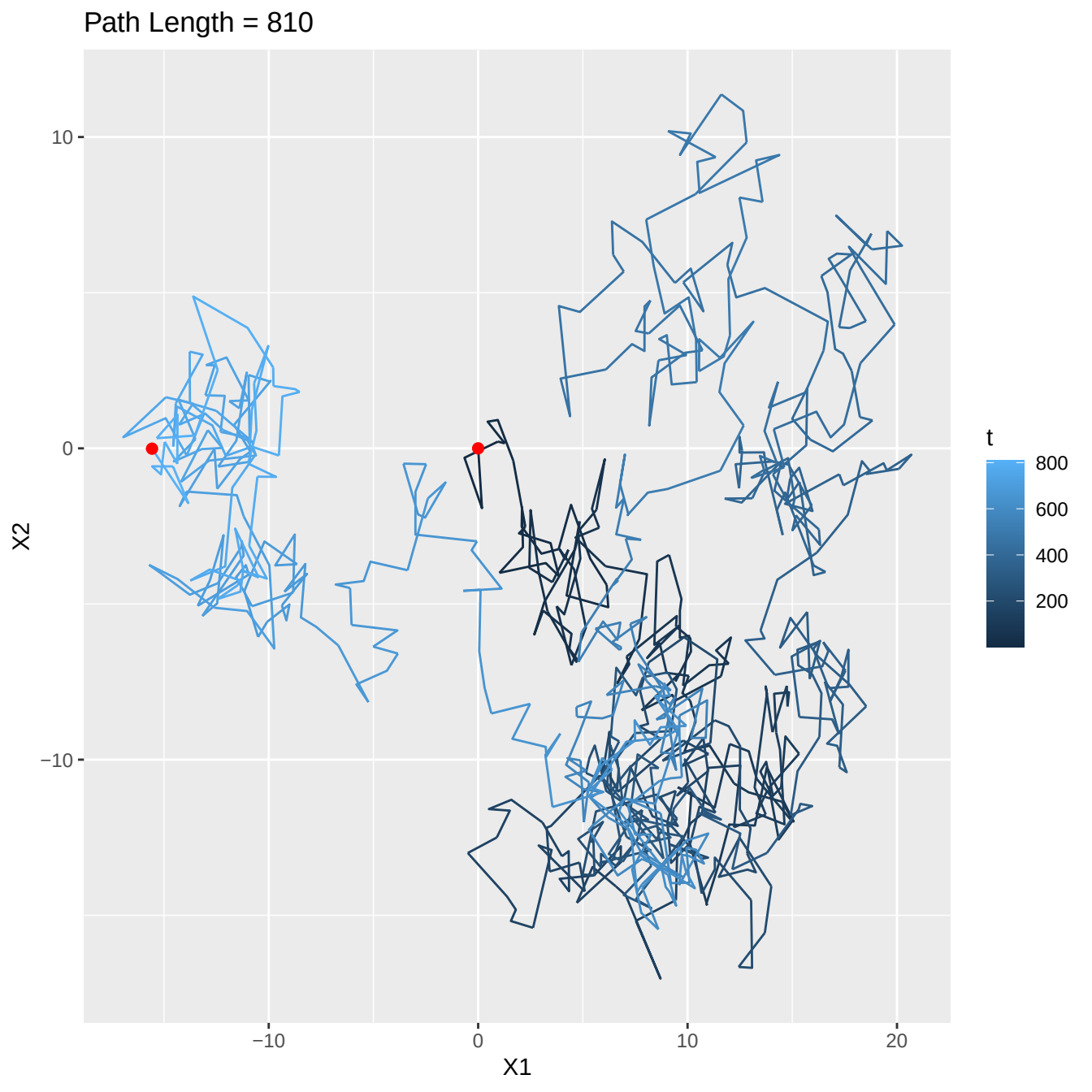
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X2
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X1
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400
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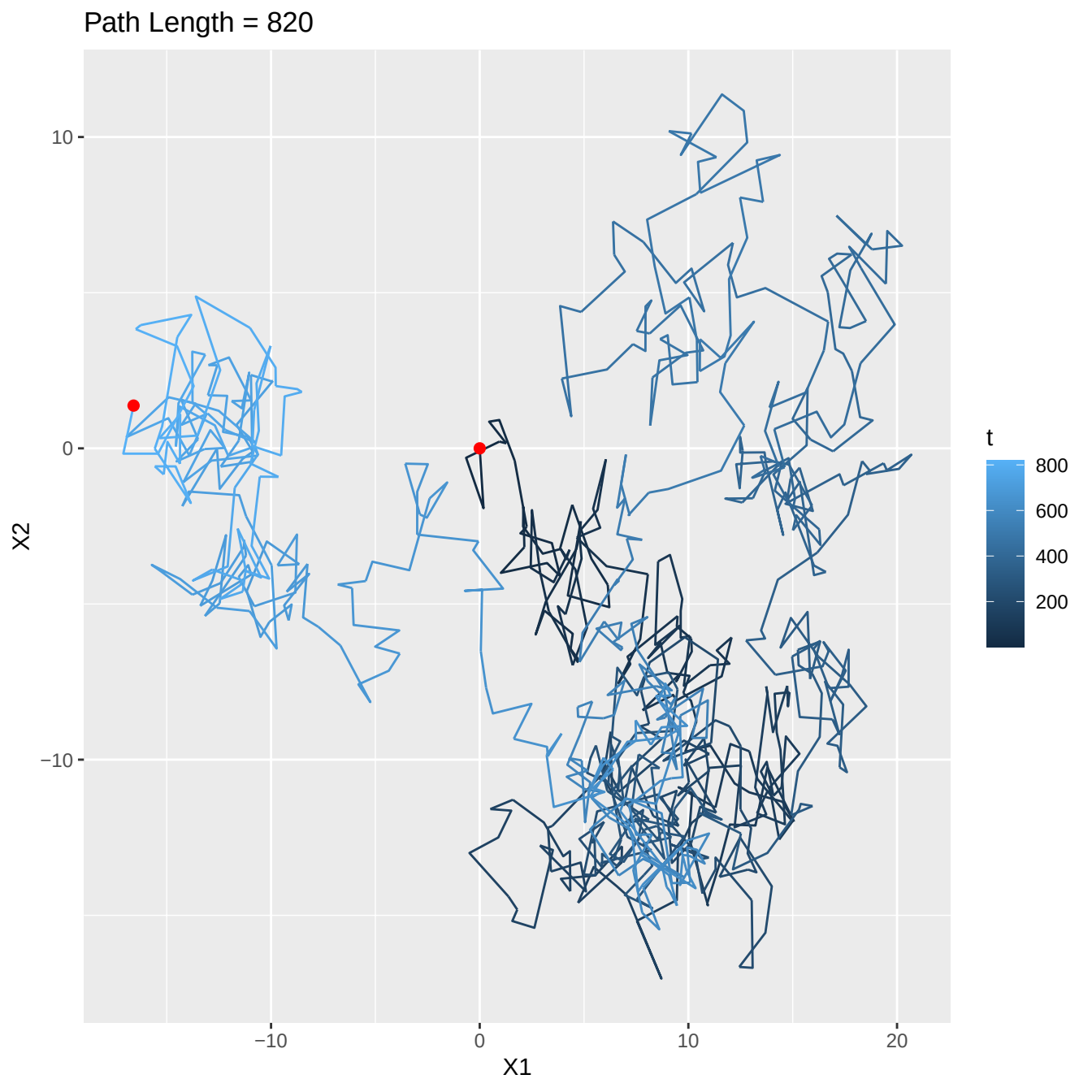
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X2
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X1
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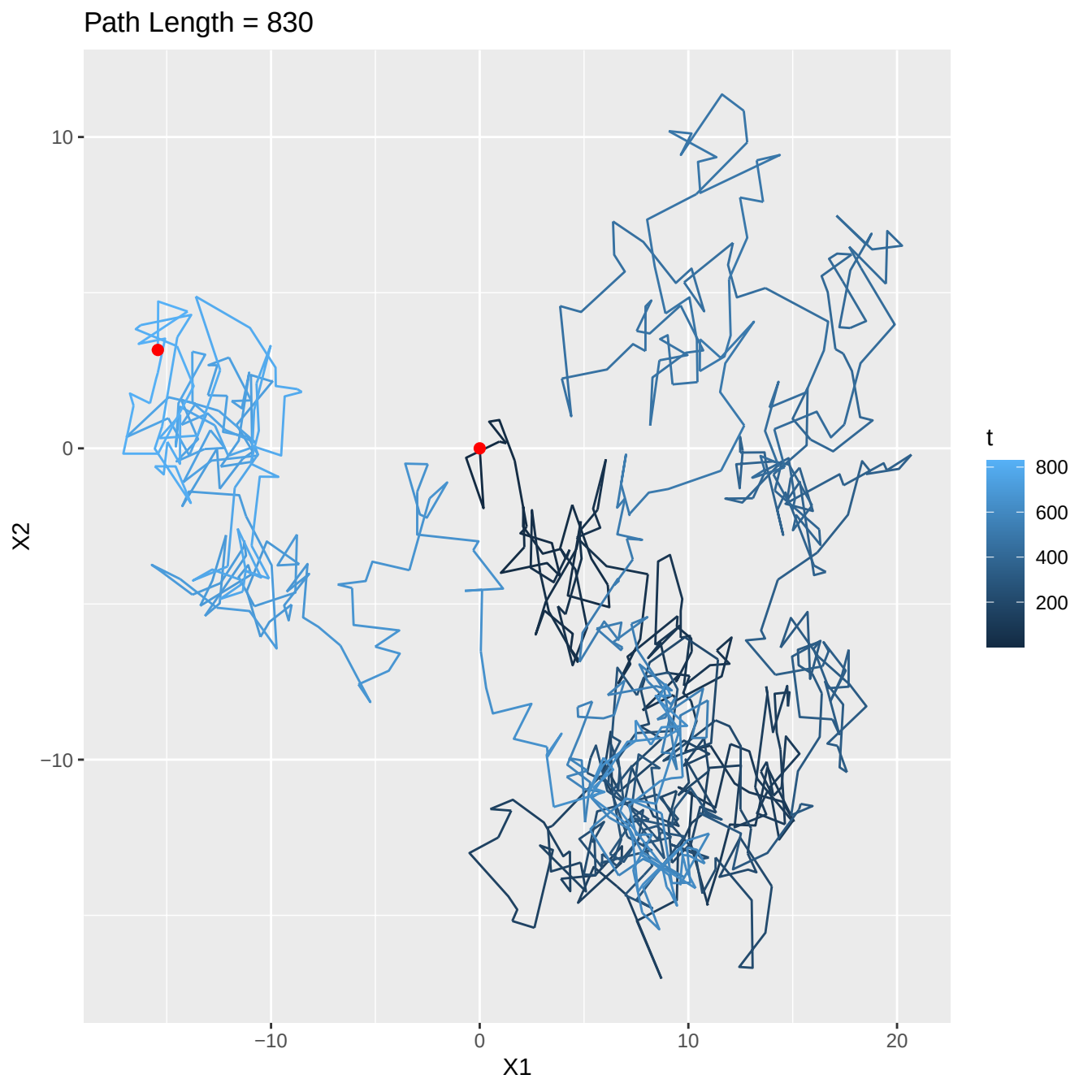
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X2
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X1
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800
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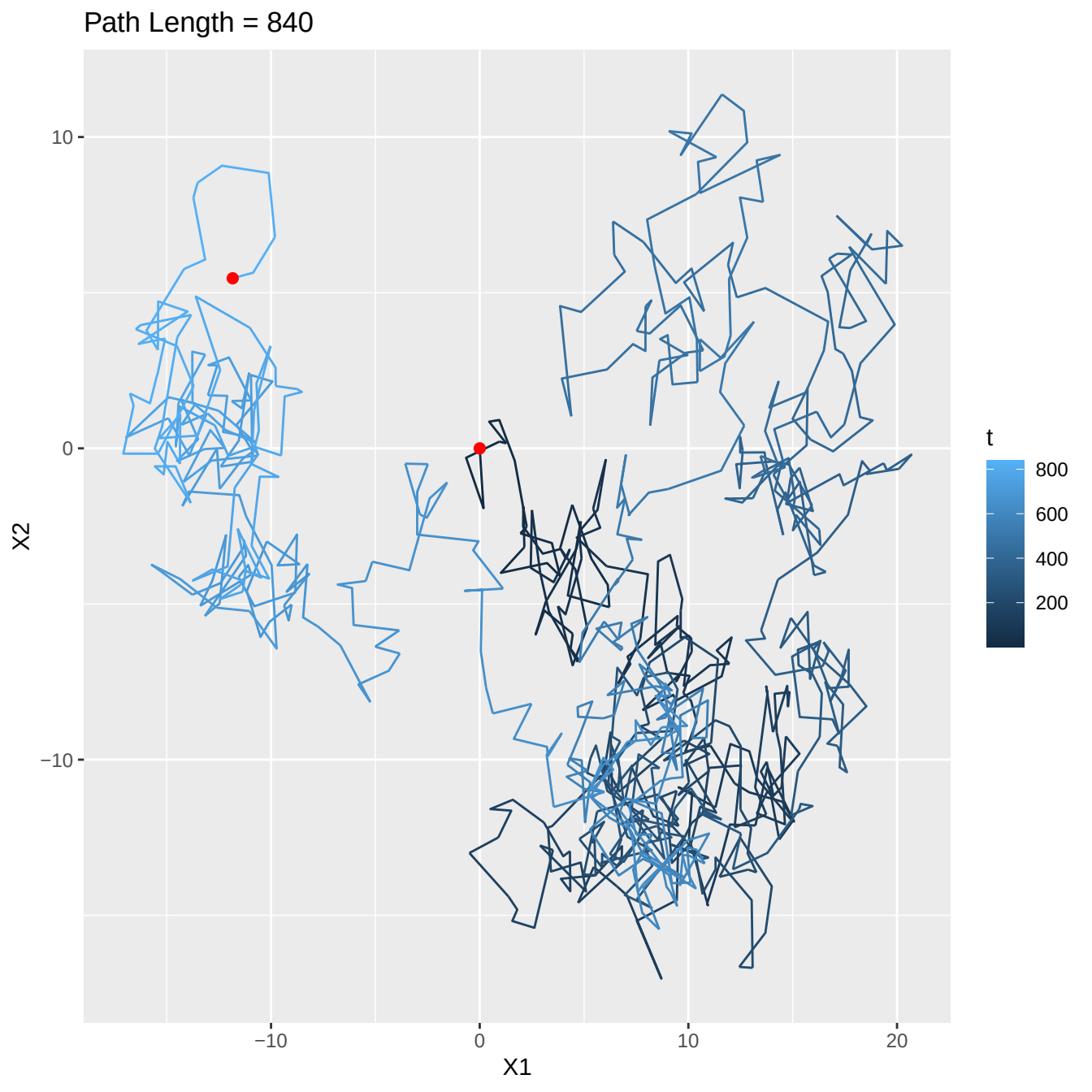
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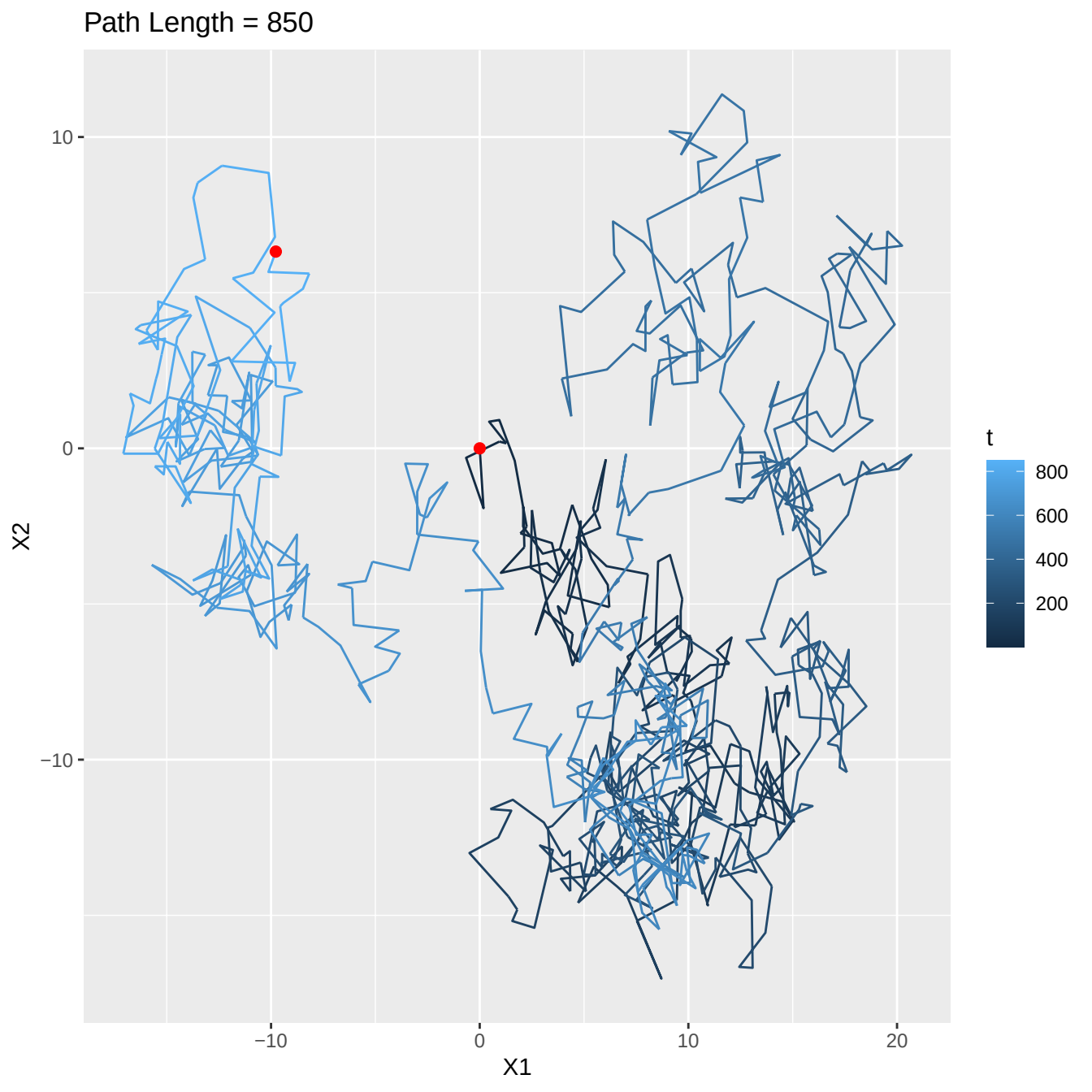
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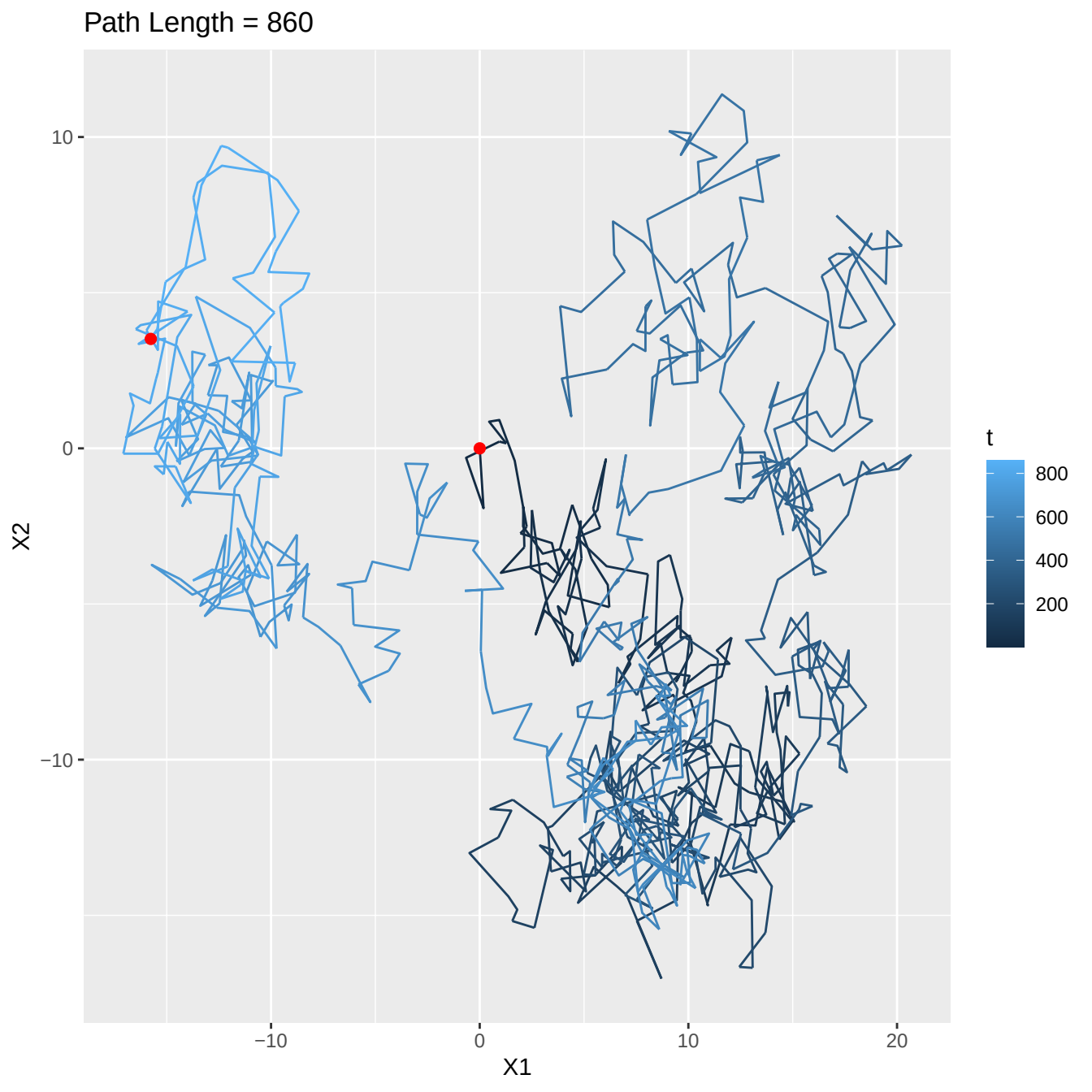
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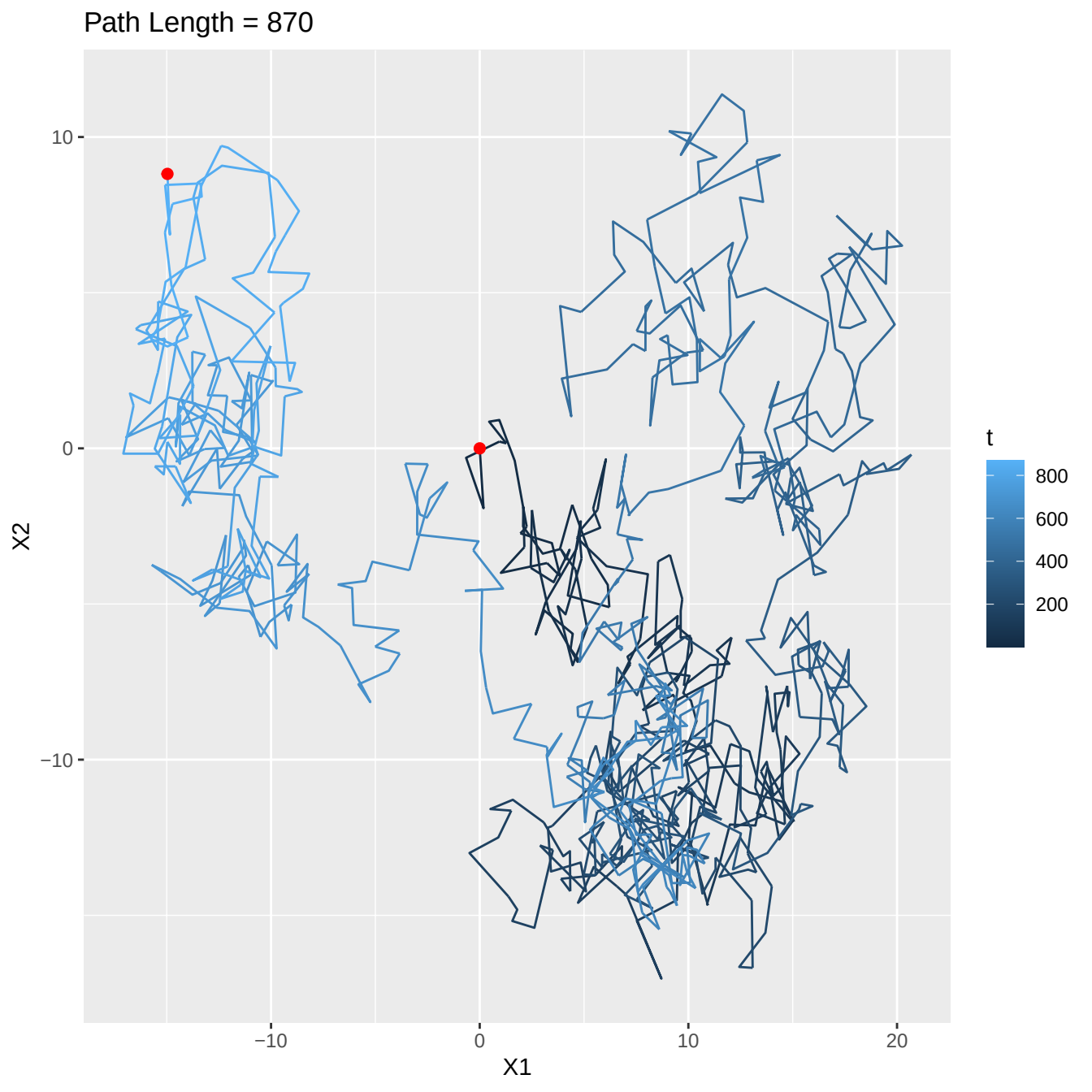
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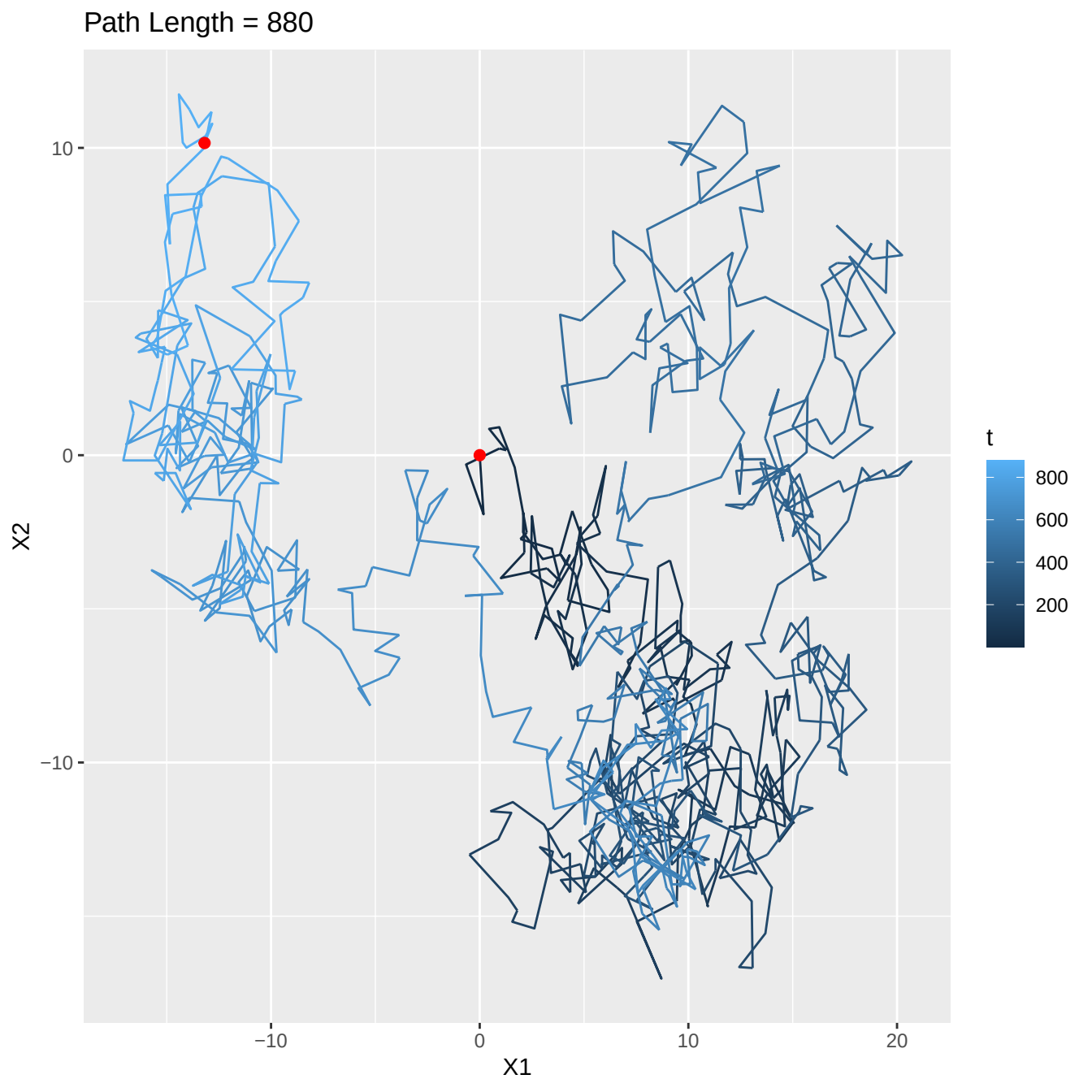
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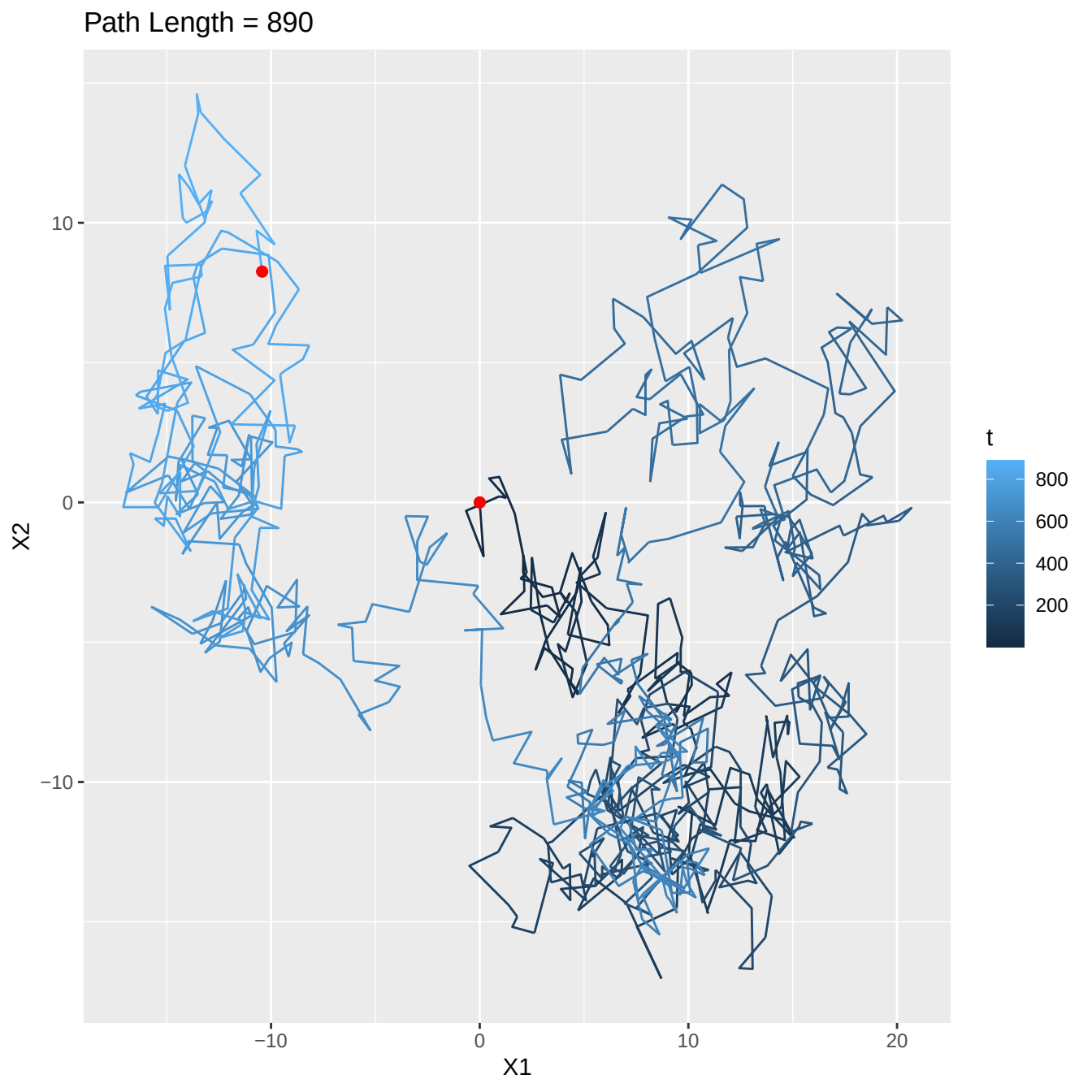
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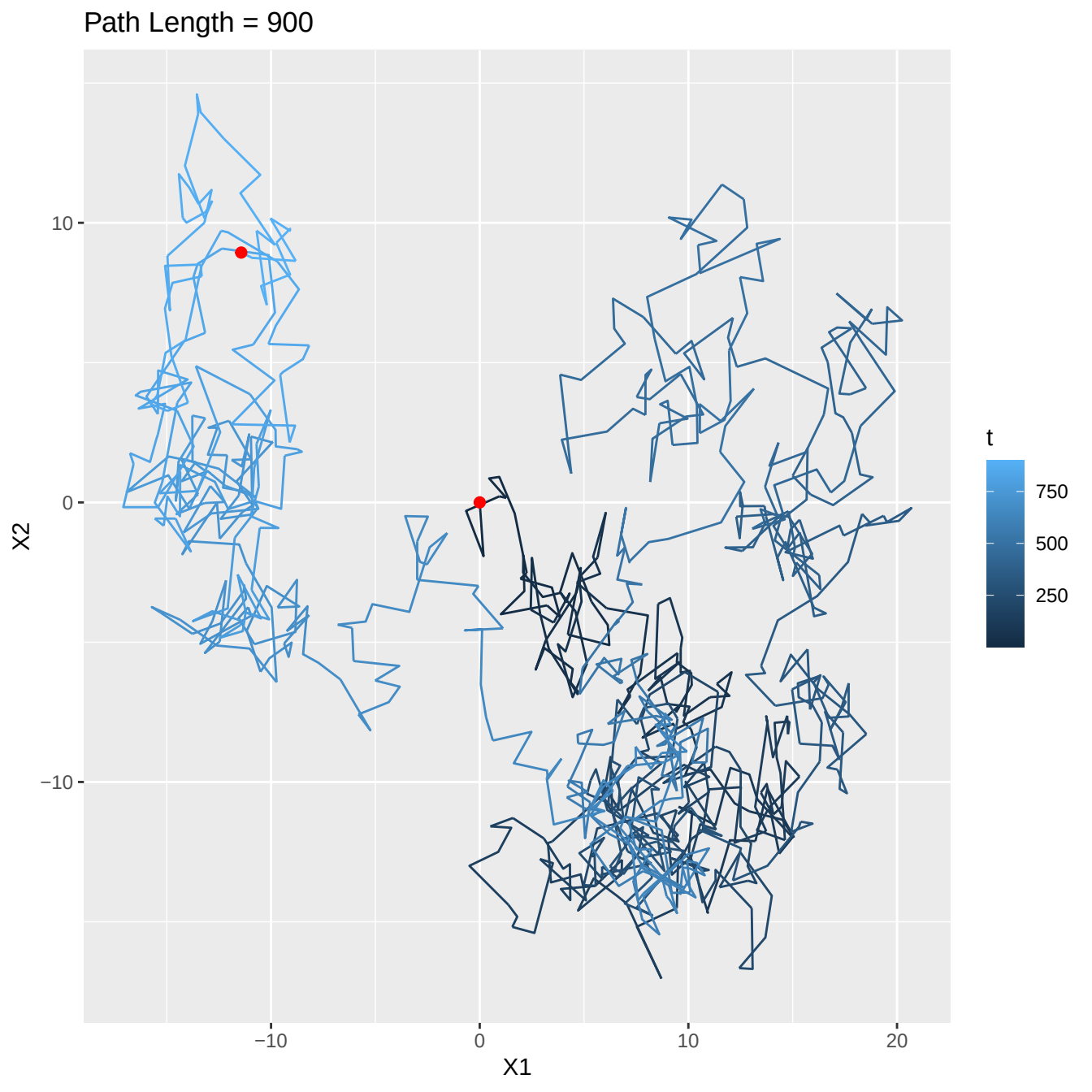
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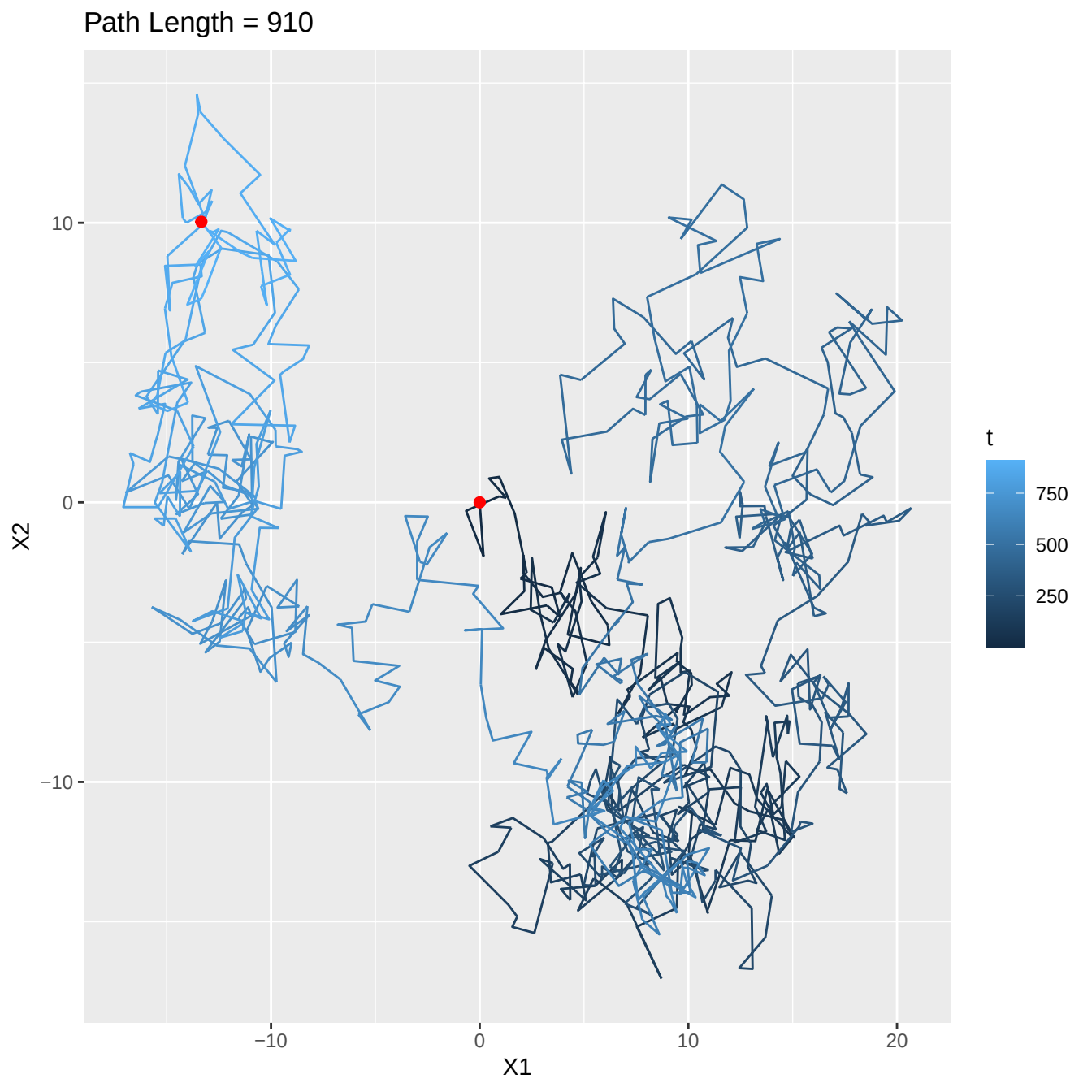
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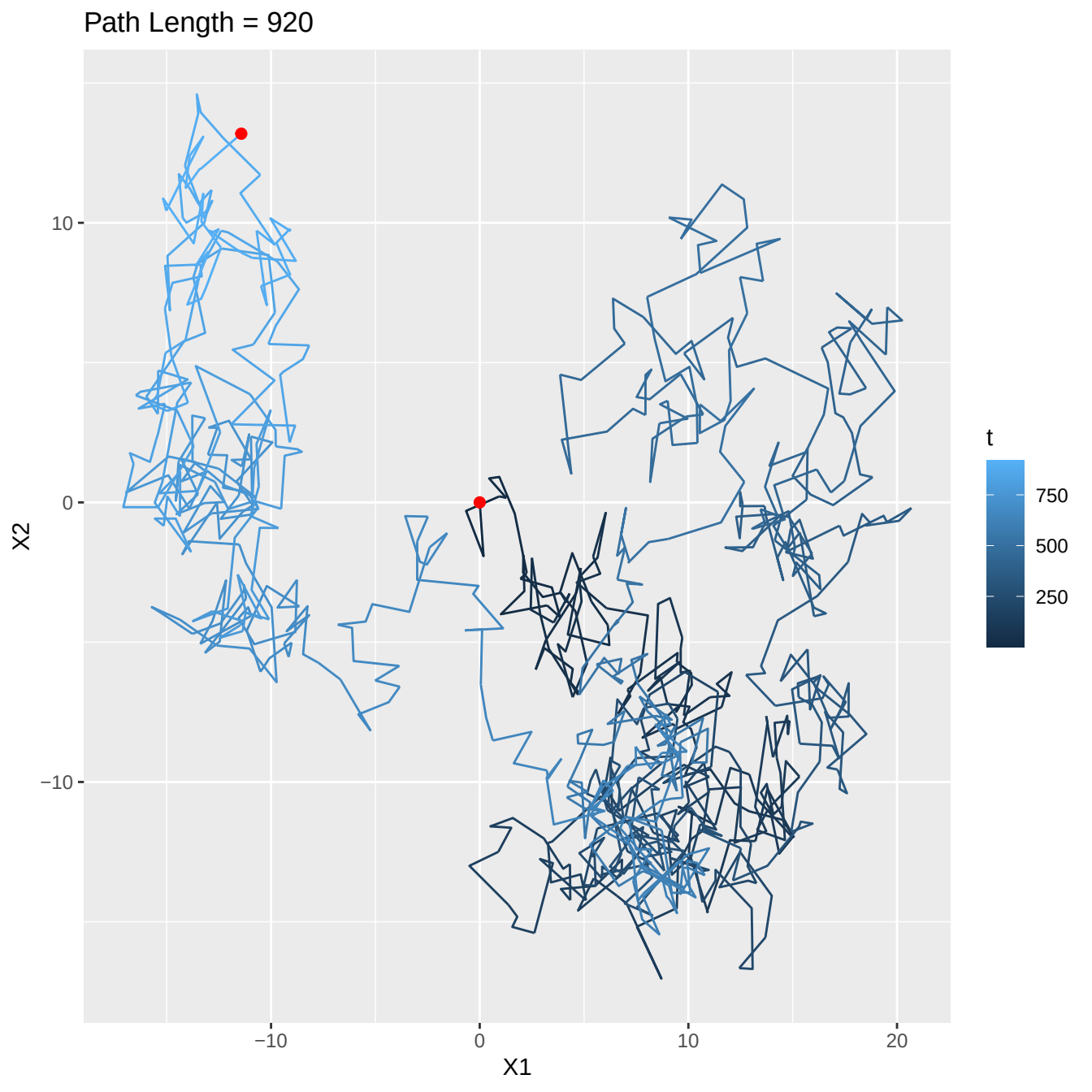
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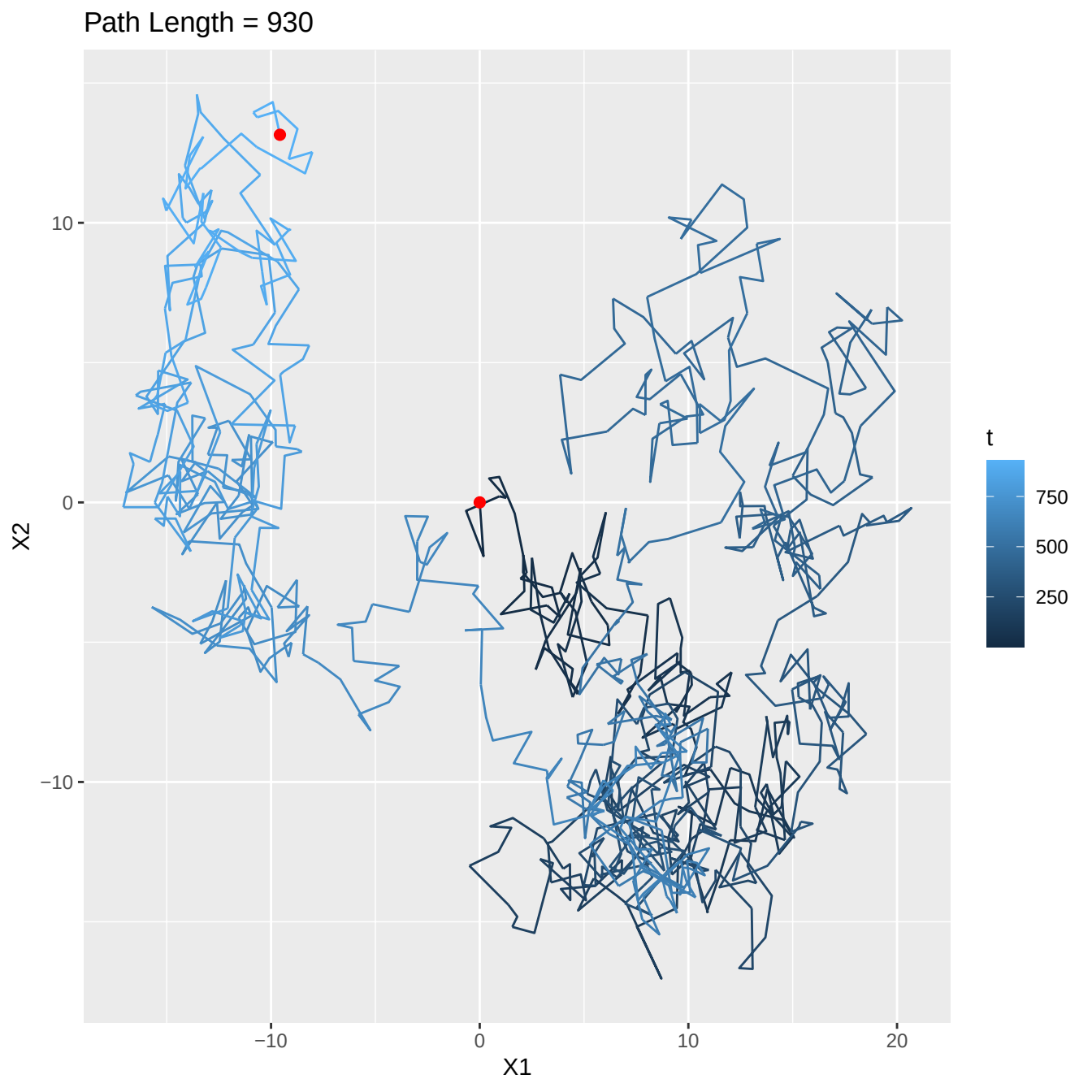
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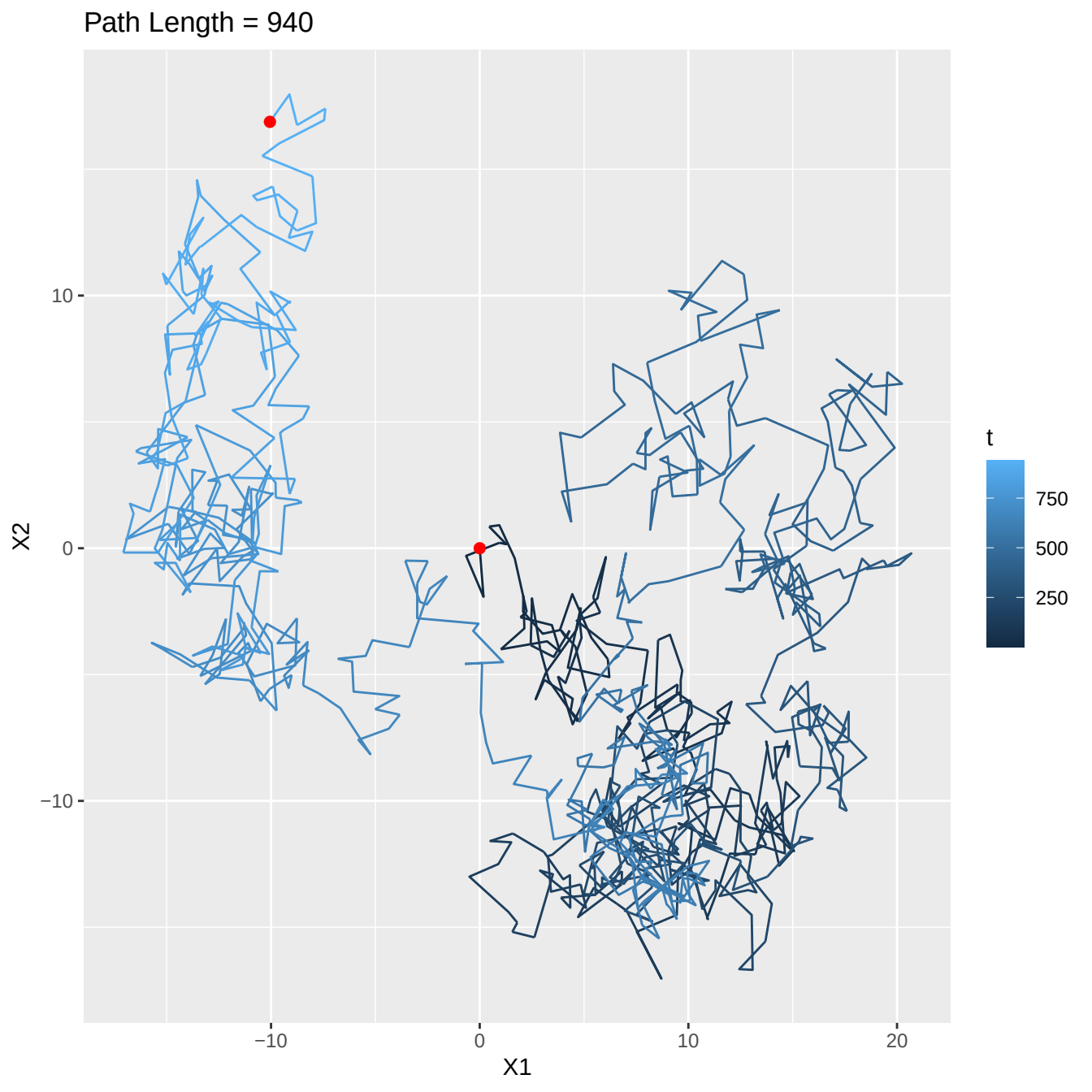
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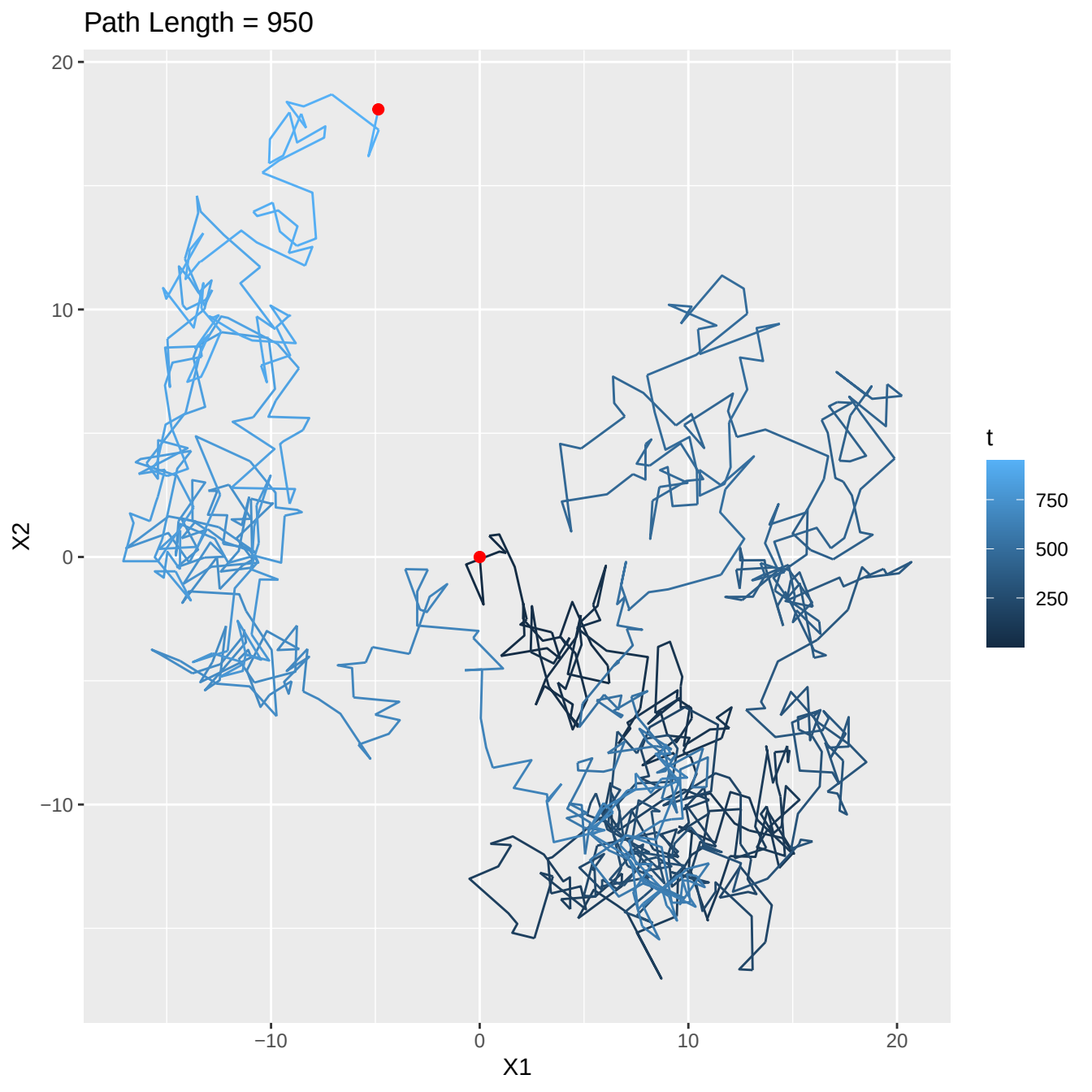
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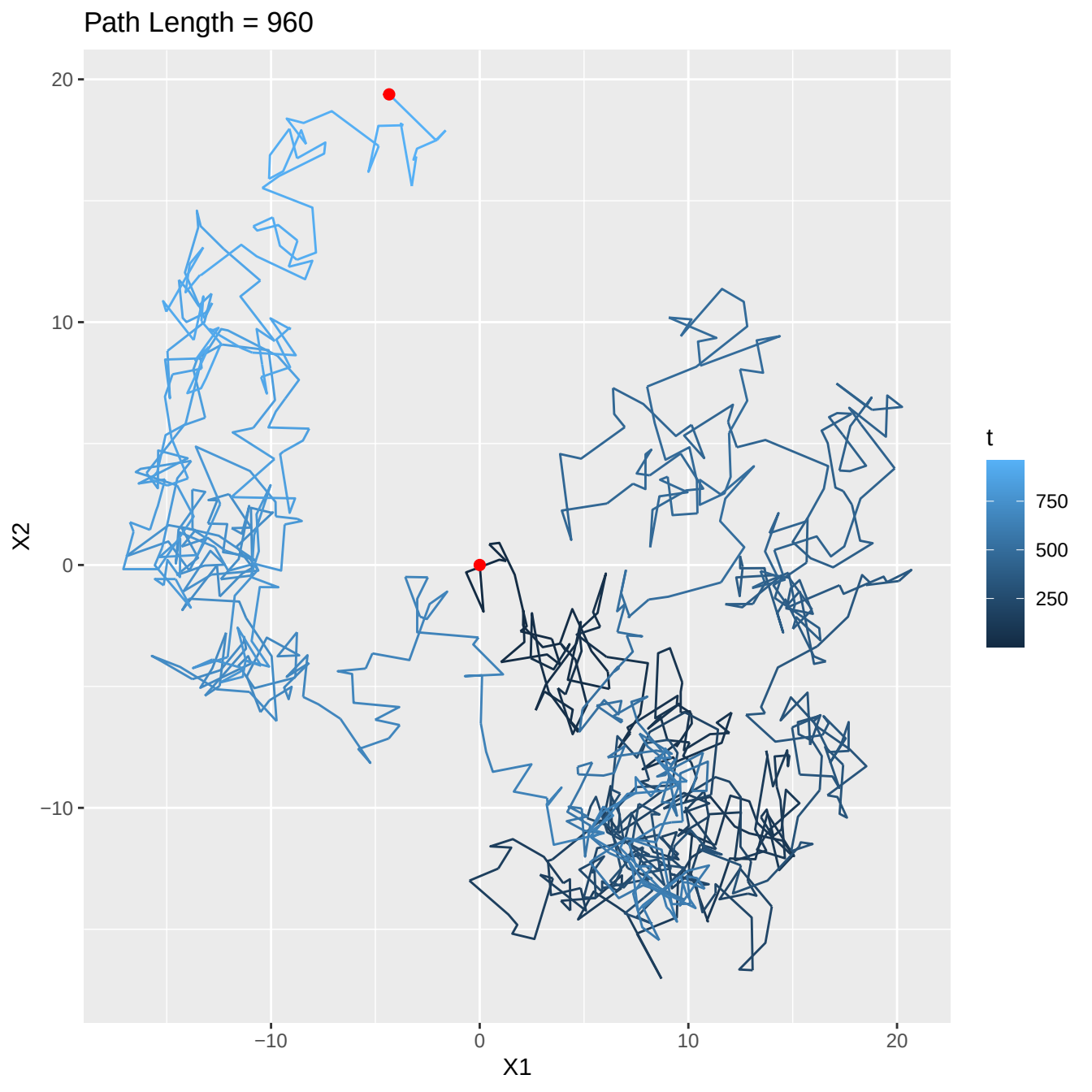
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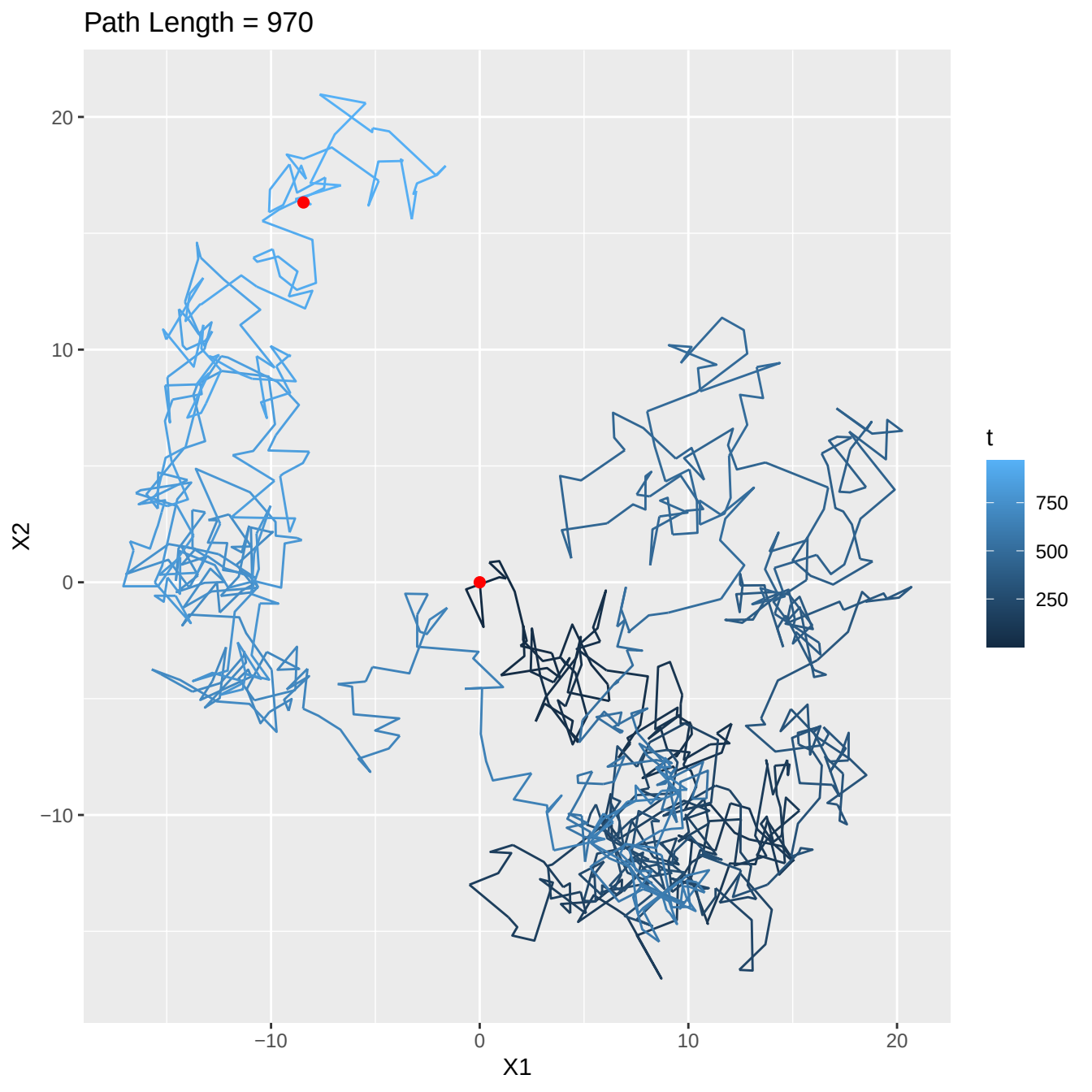
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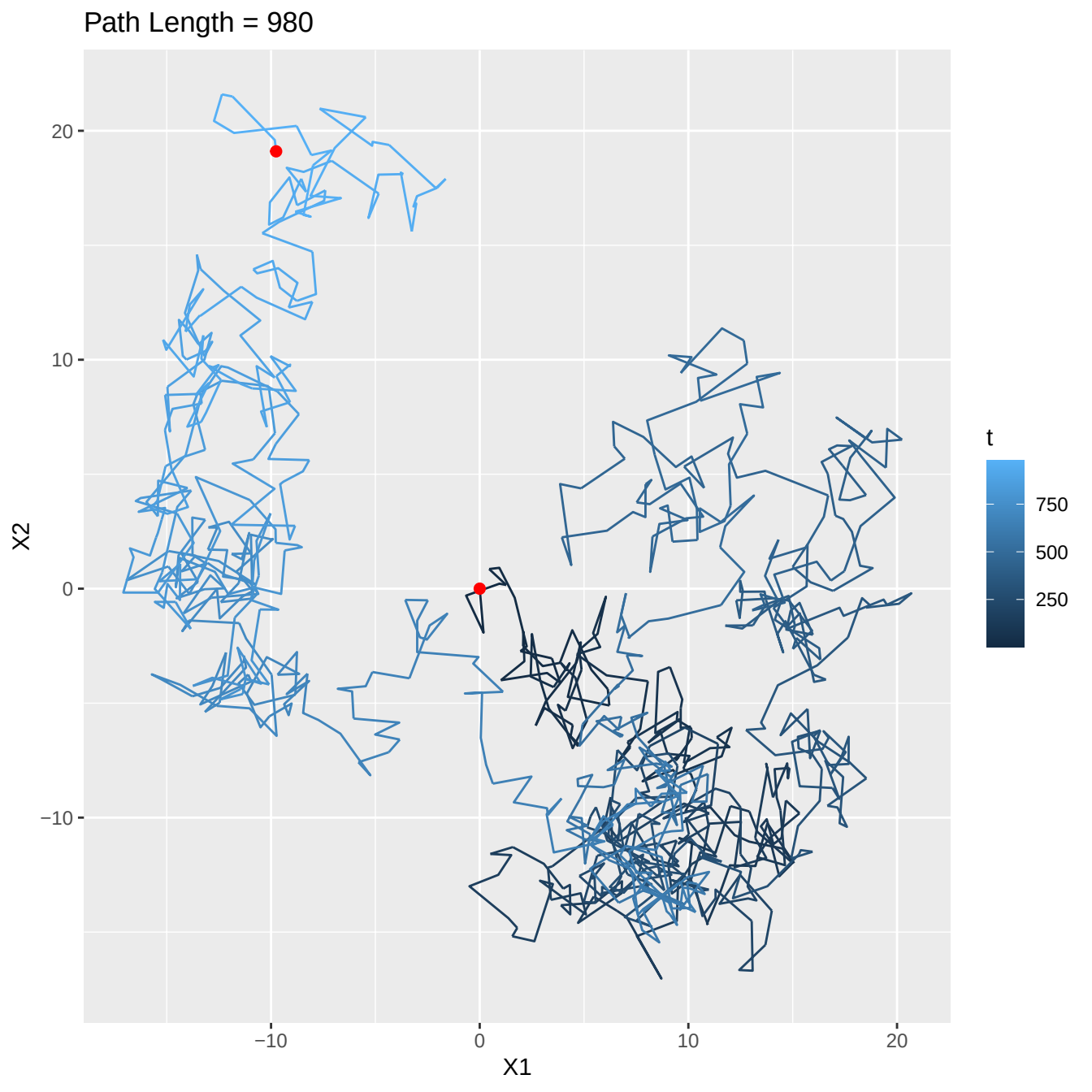
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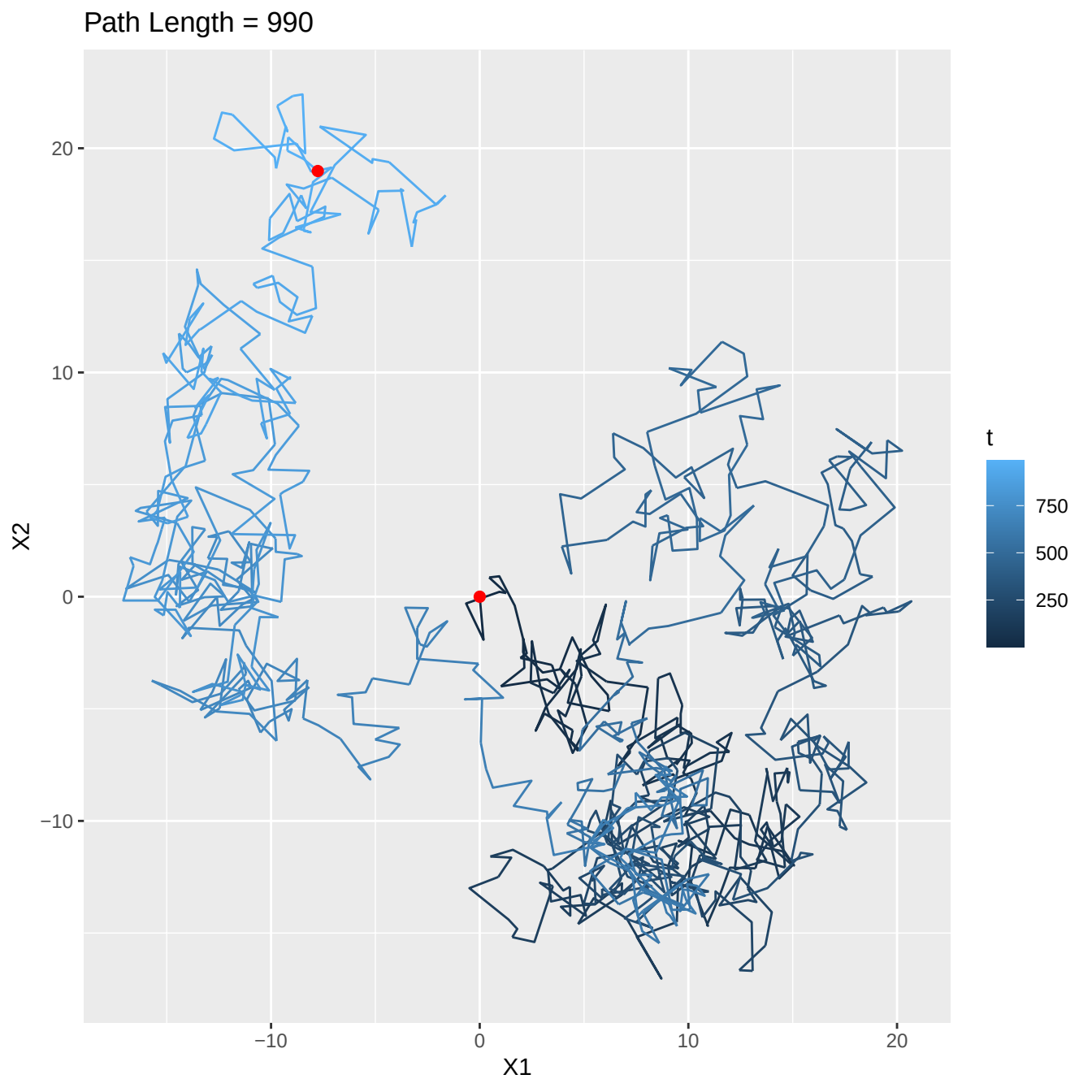
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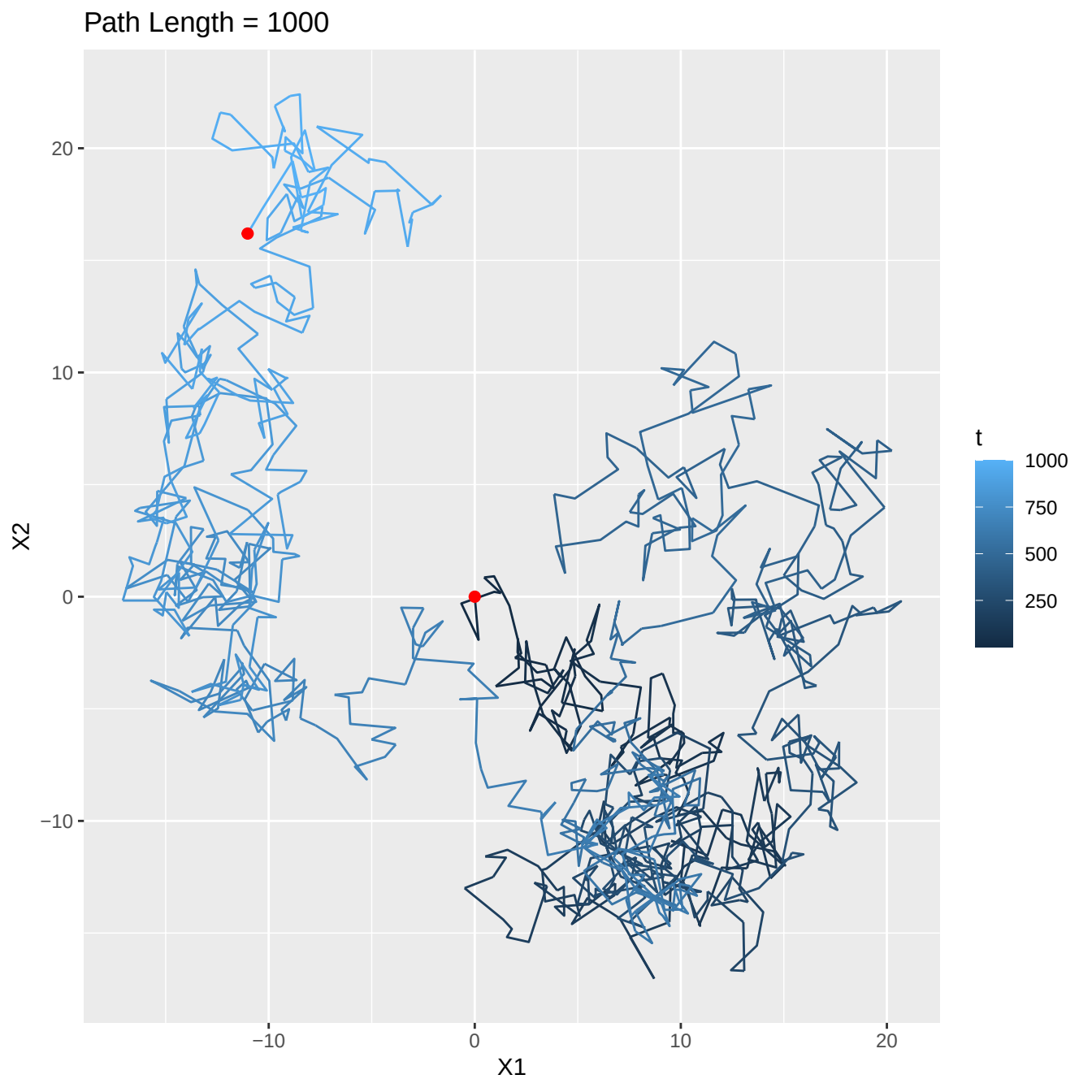
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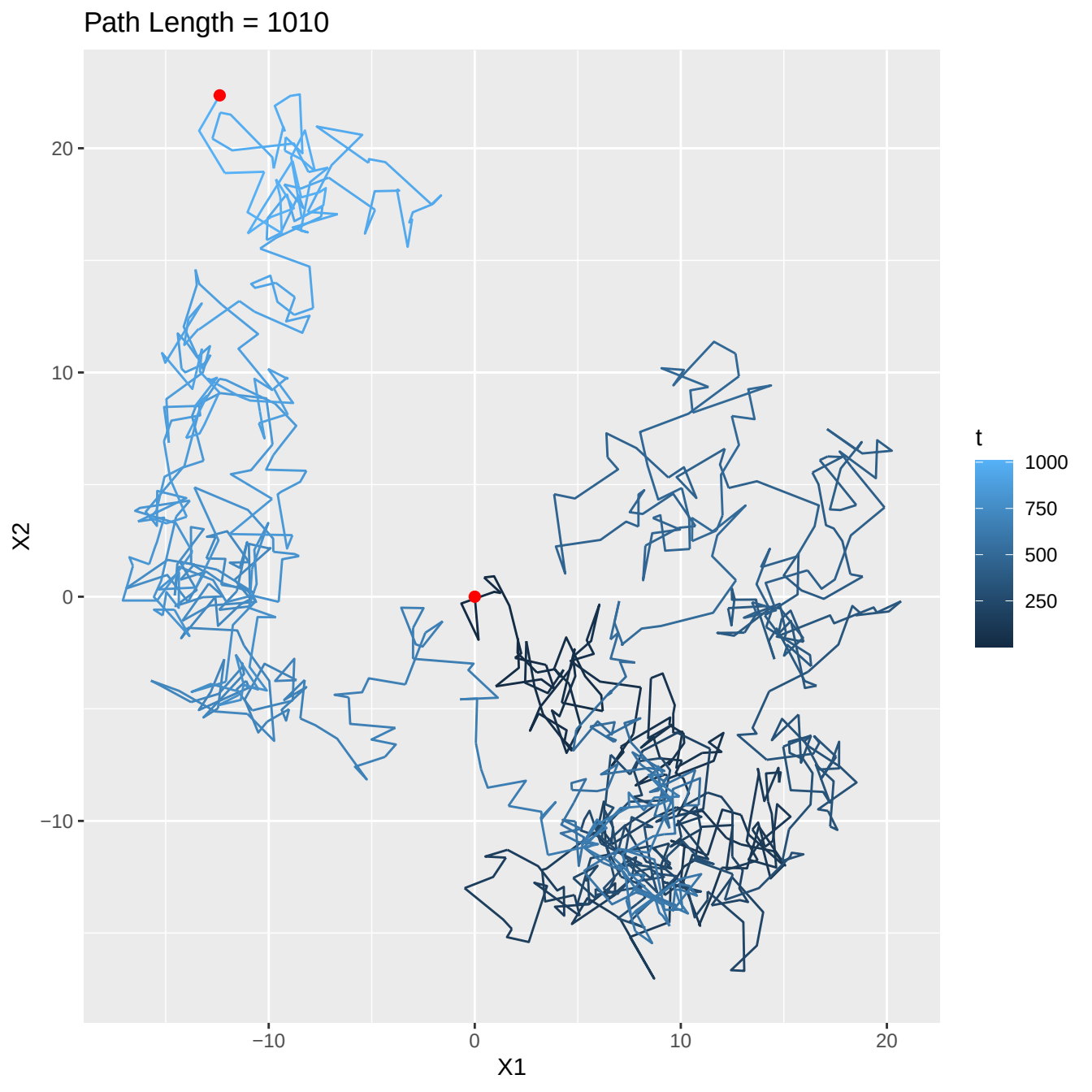
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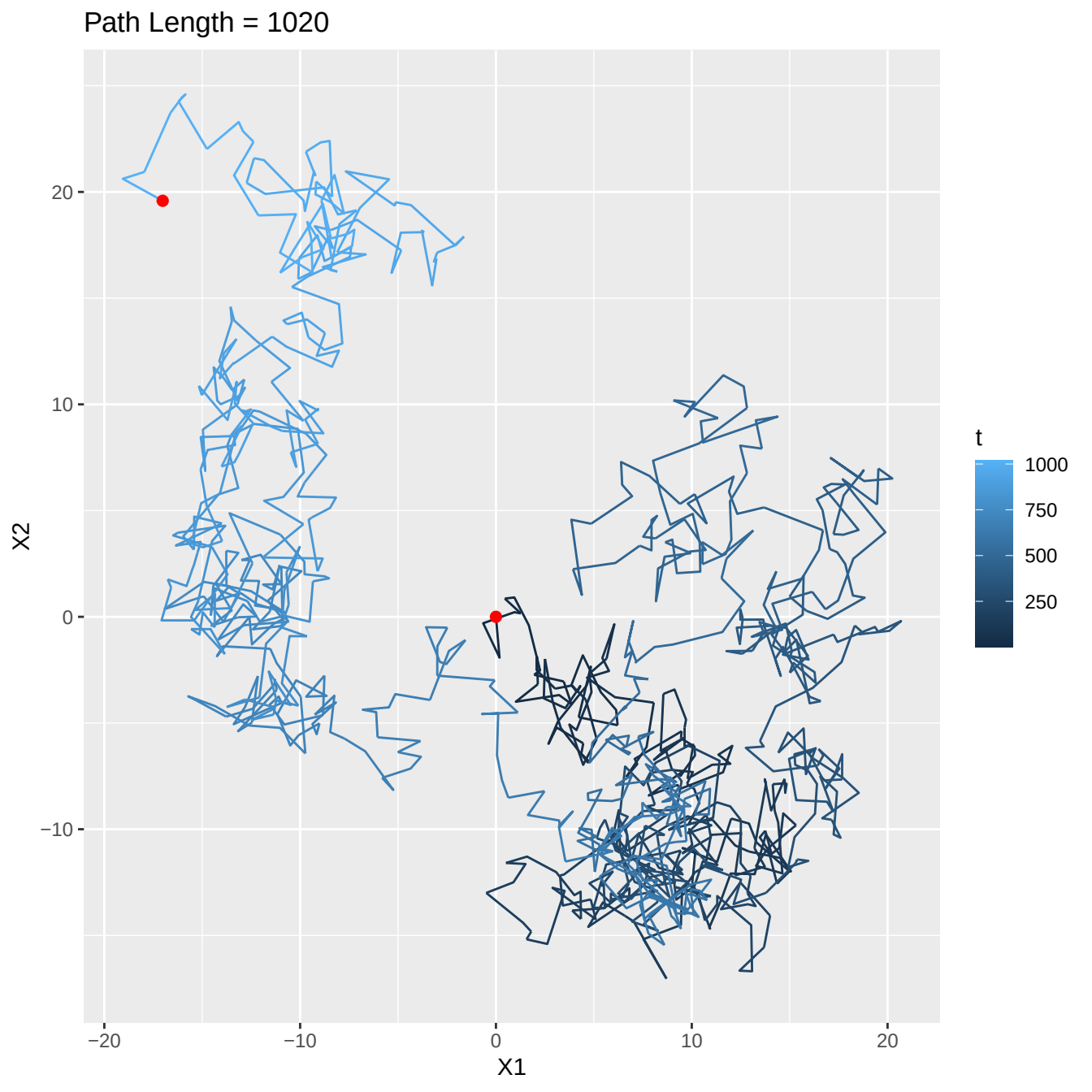
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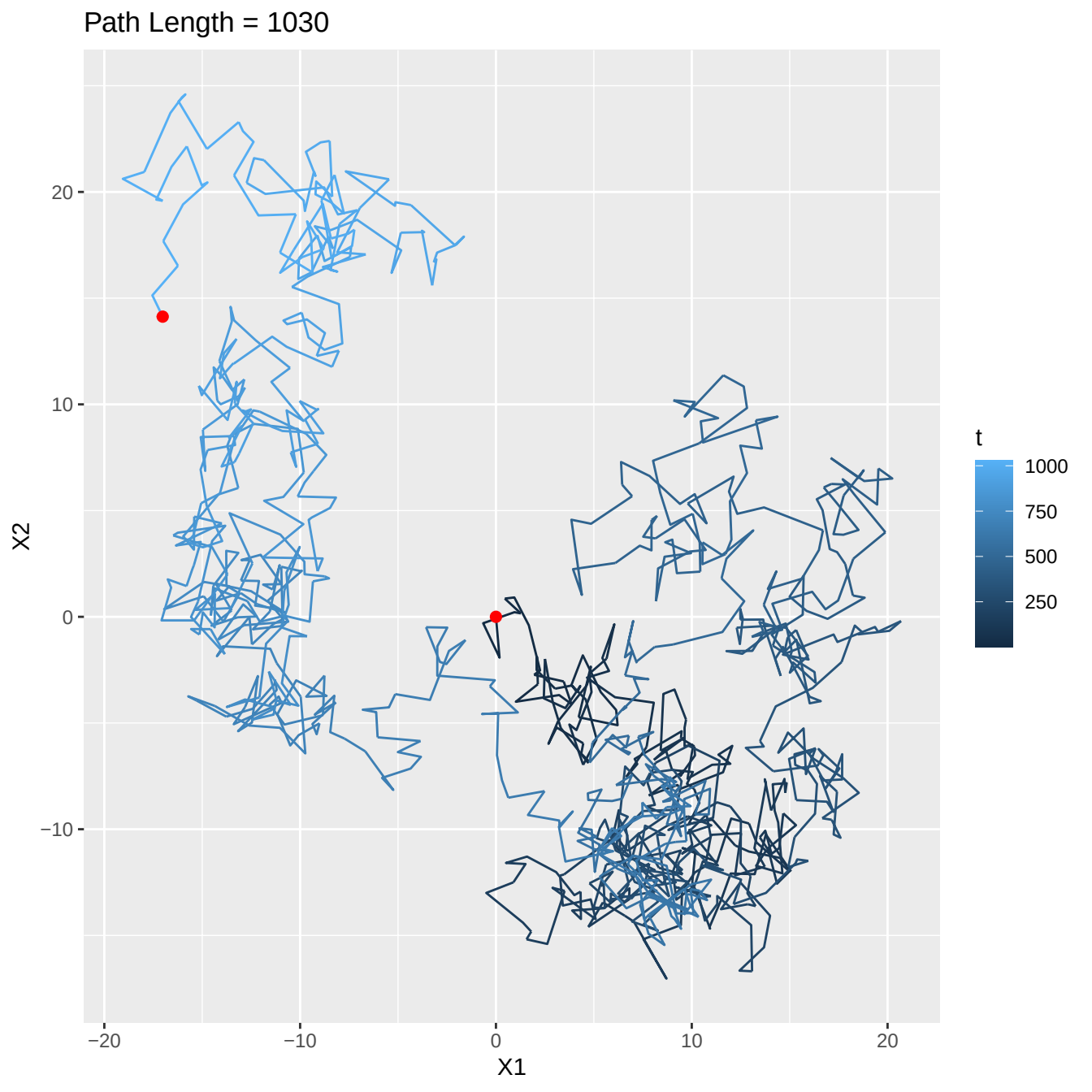
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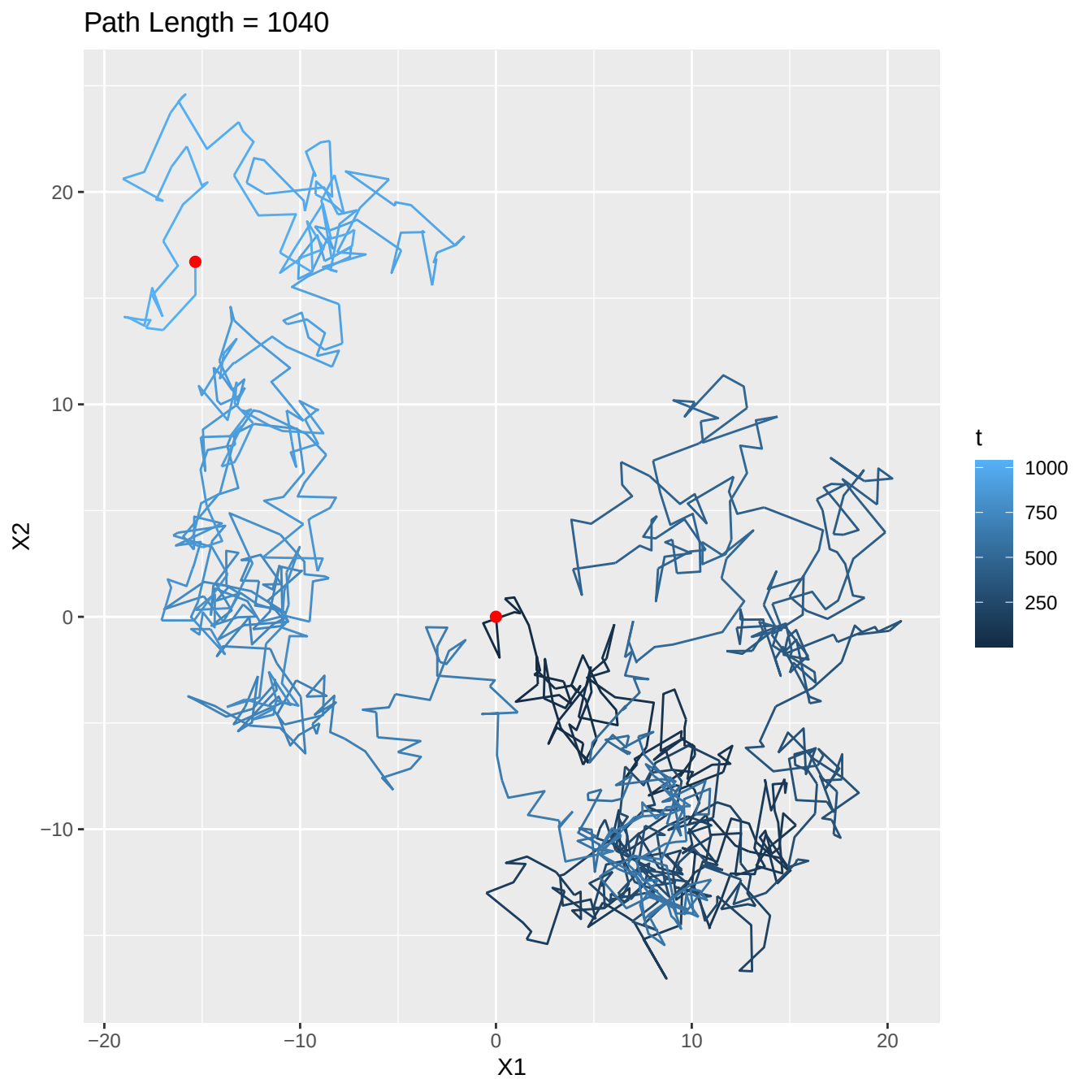
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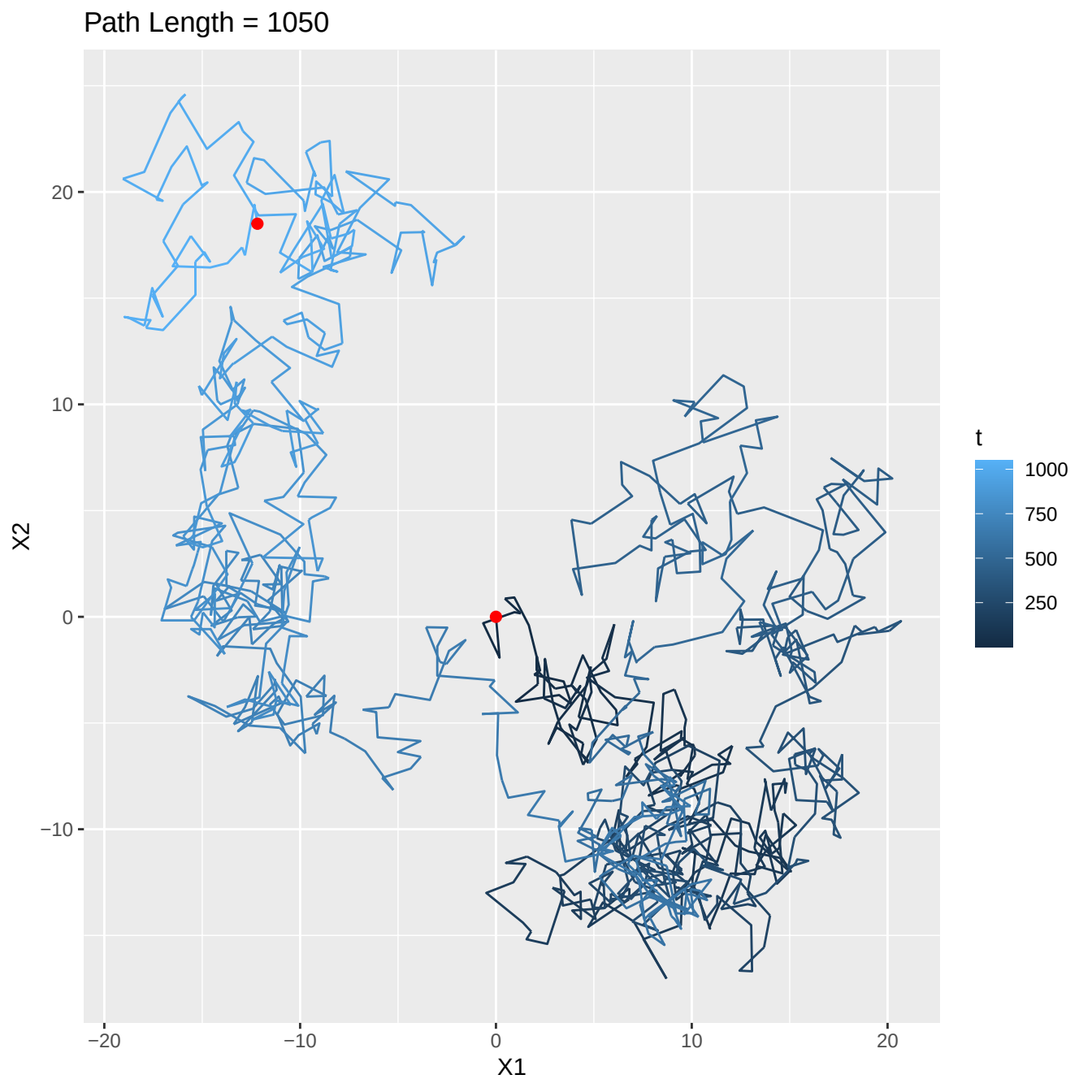
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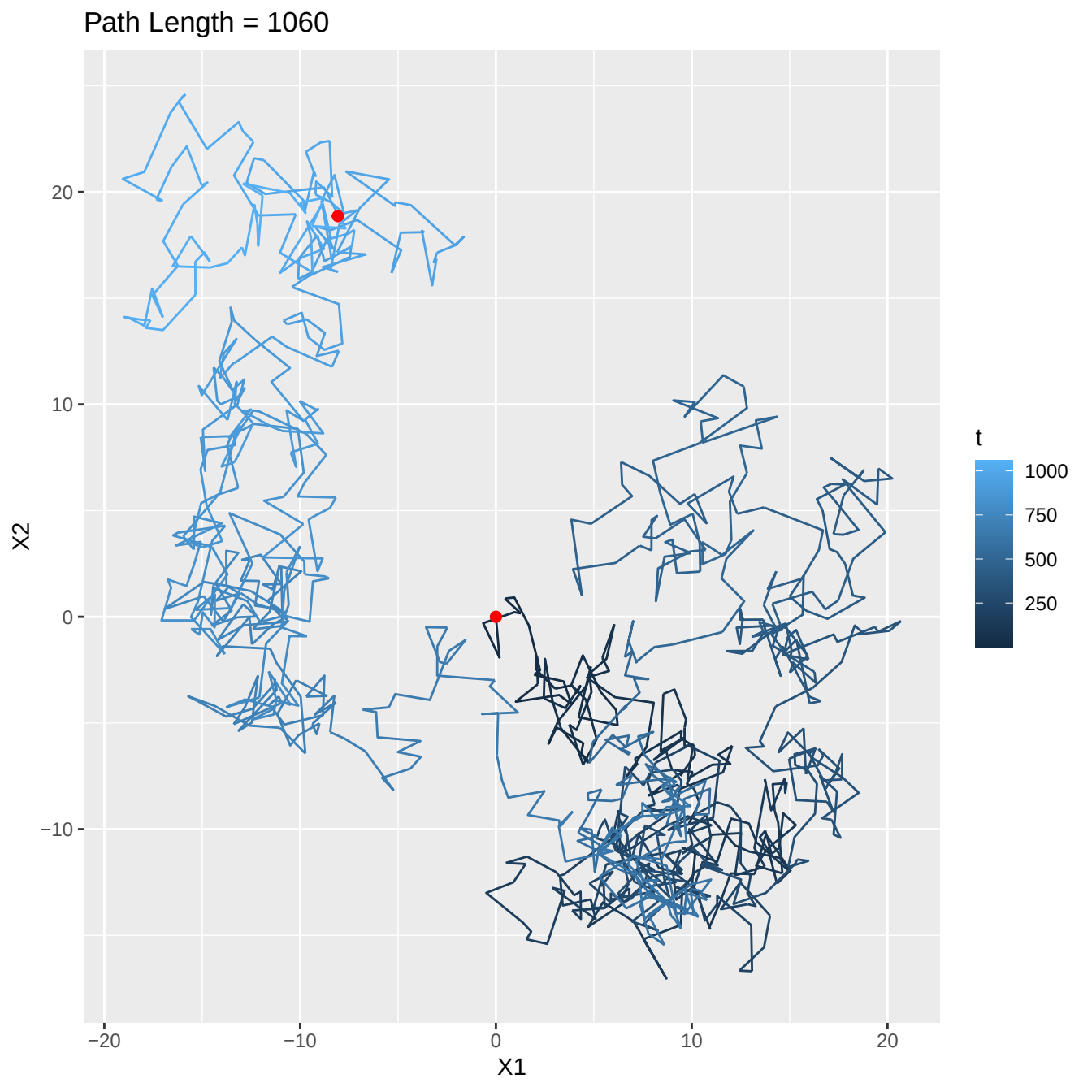
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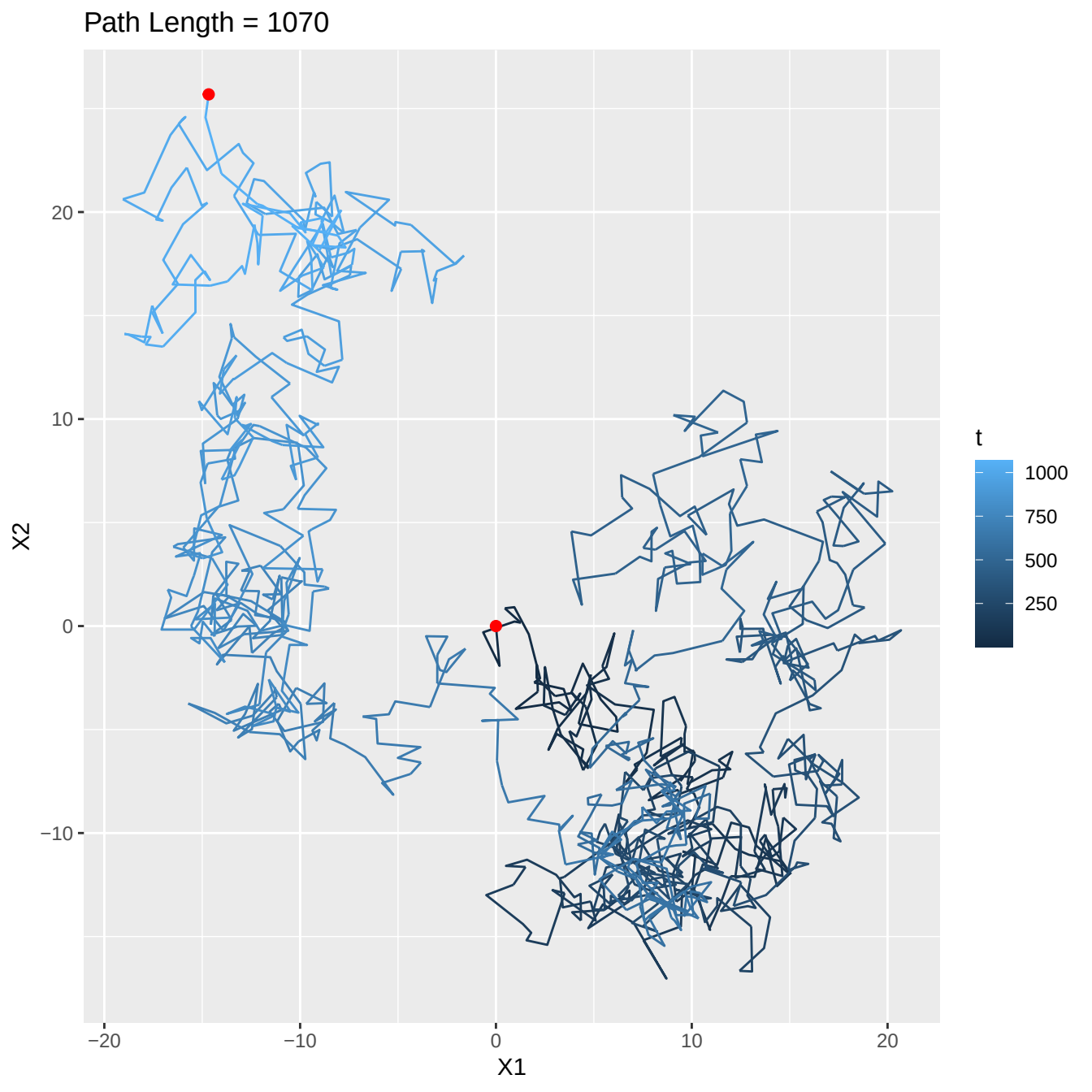
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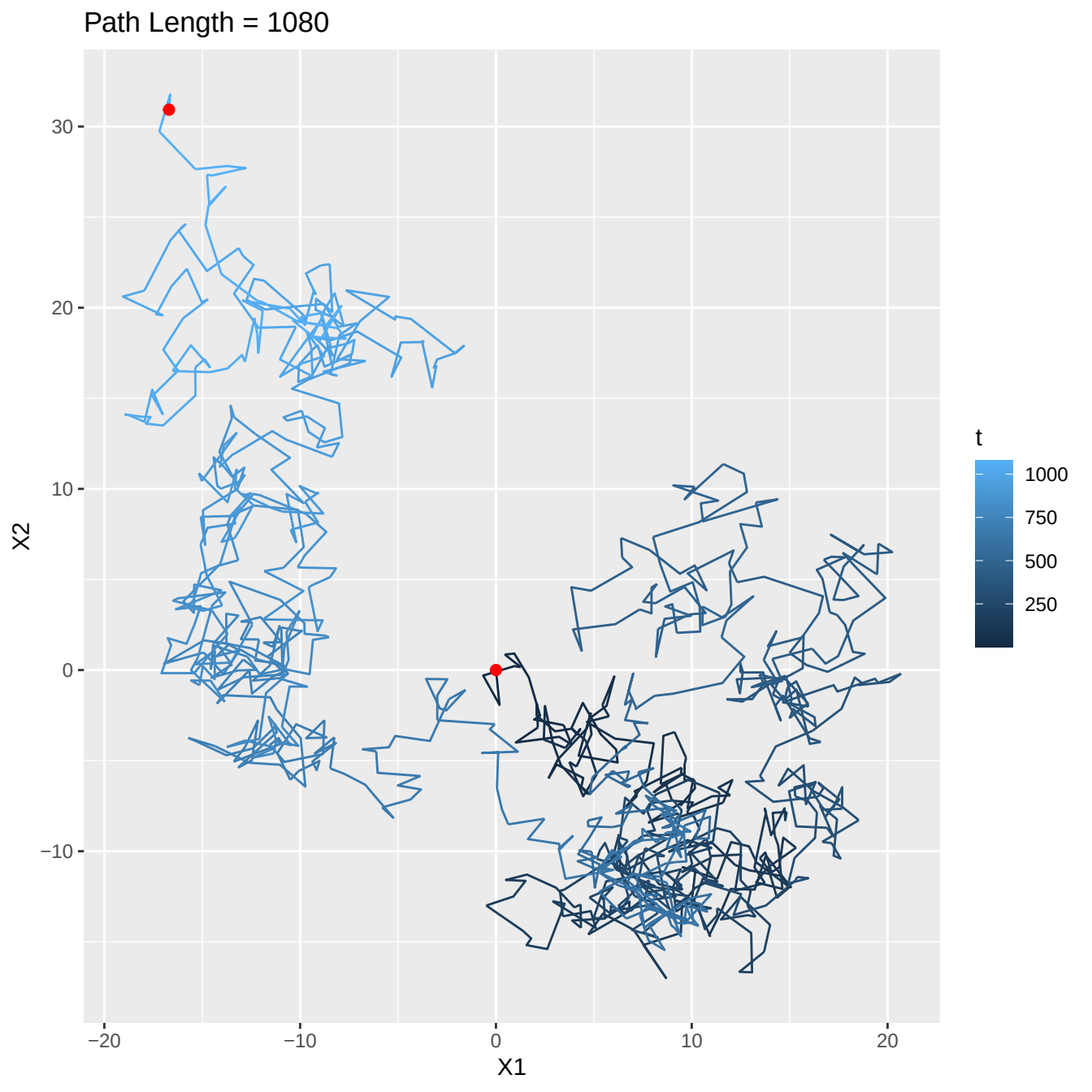
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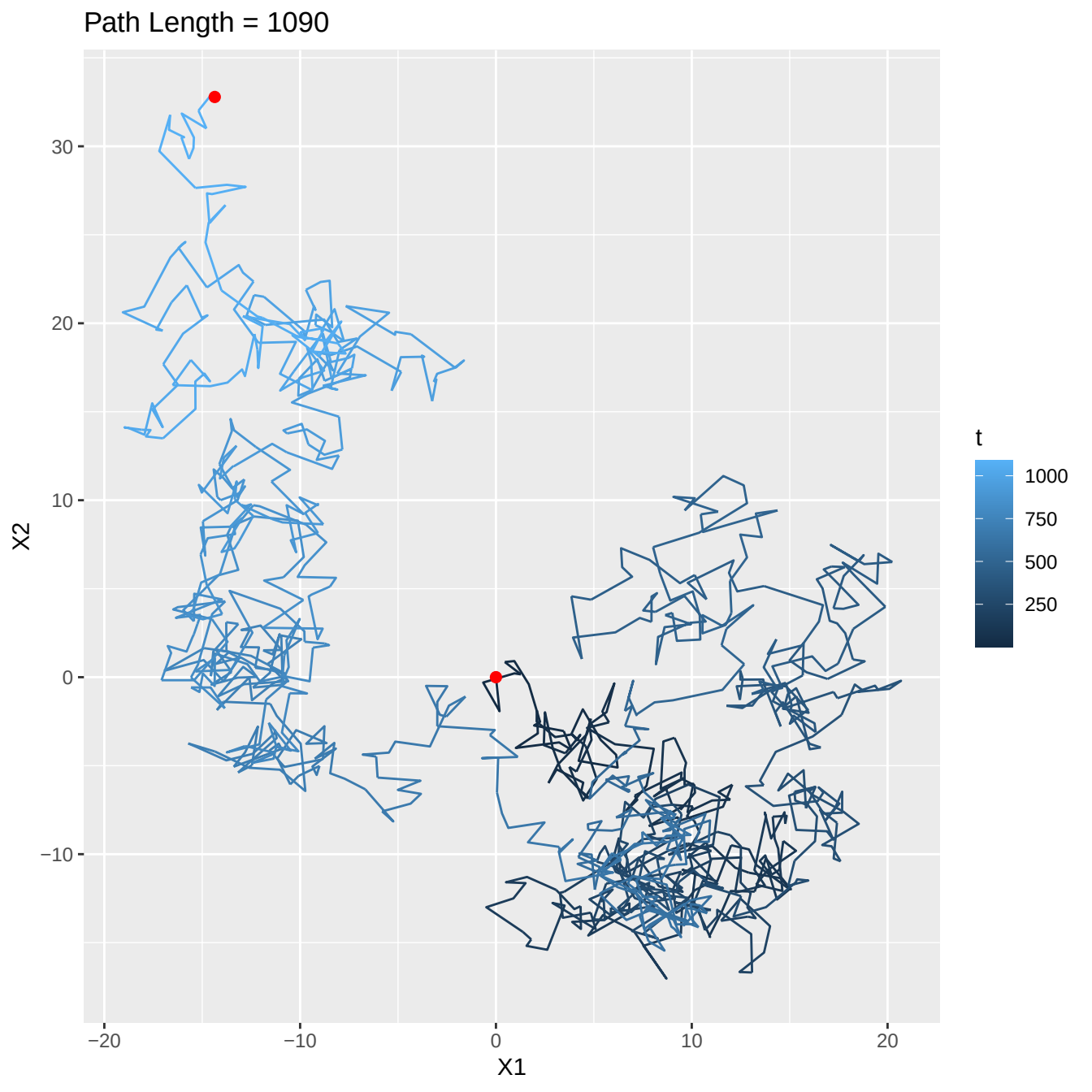
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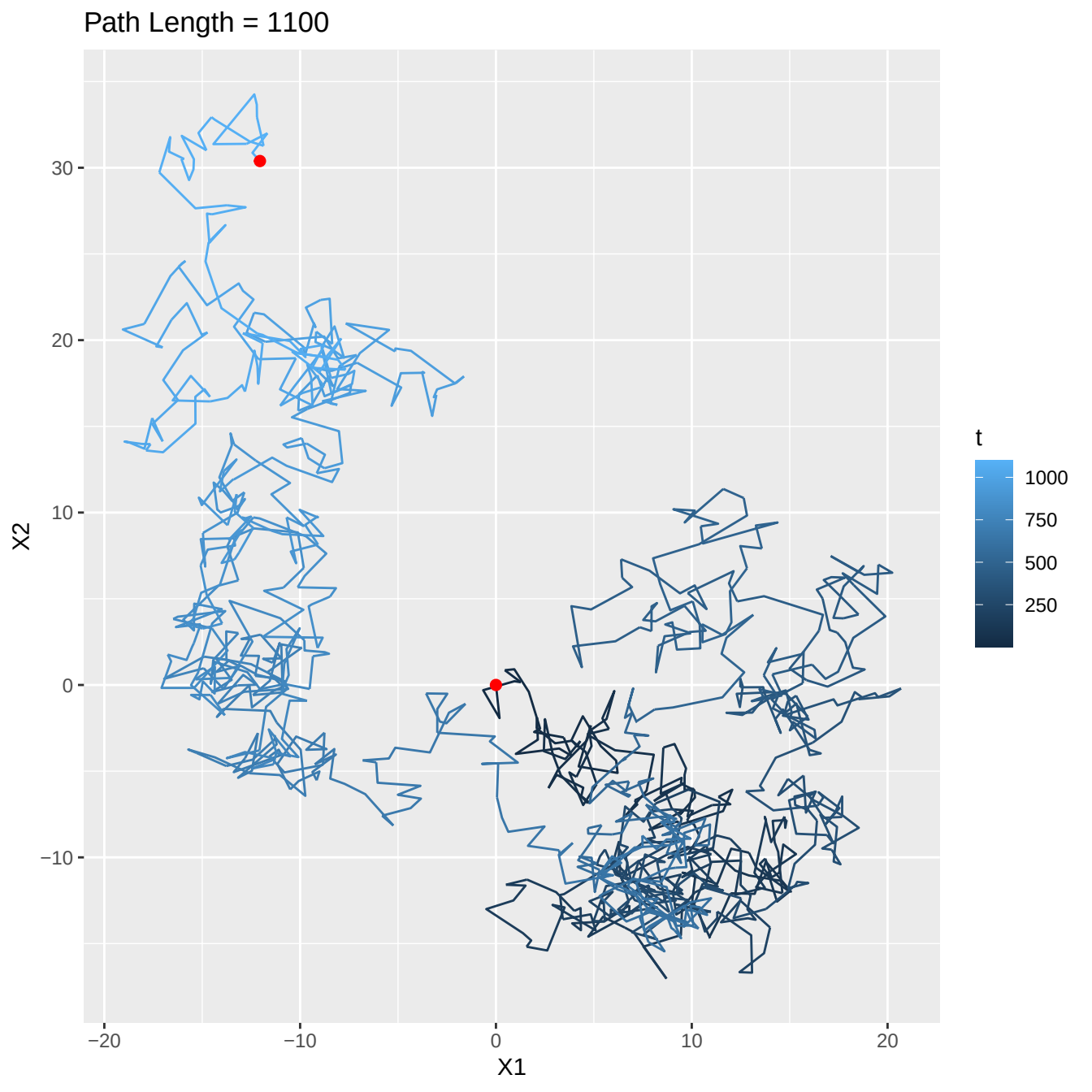
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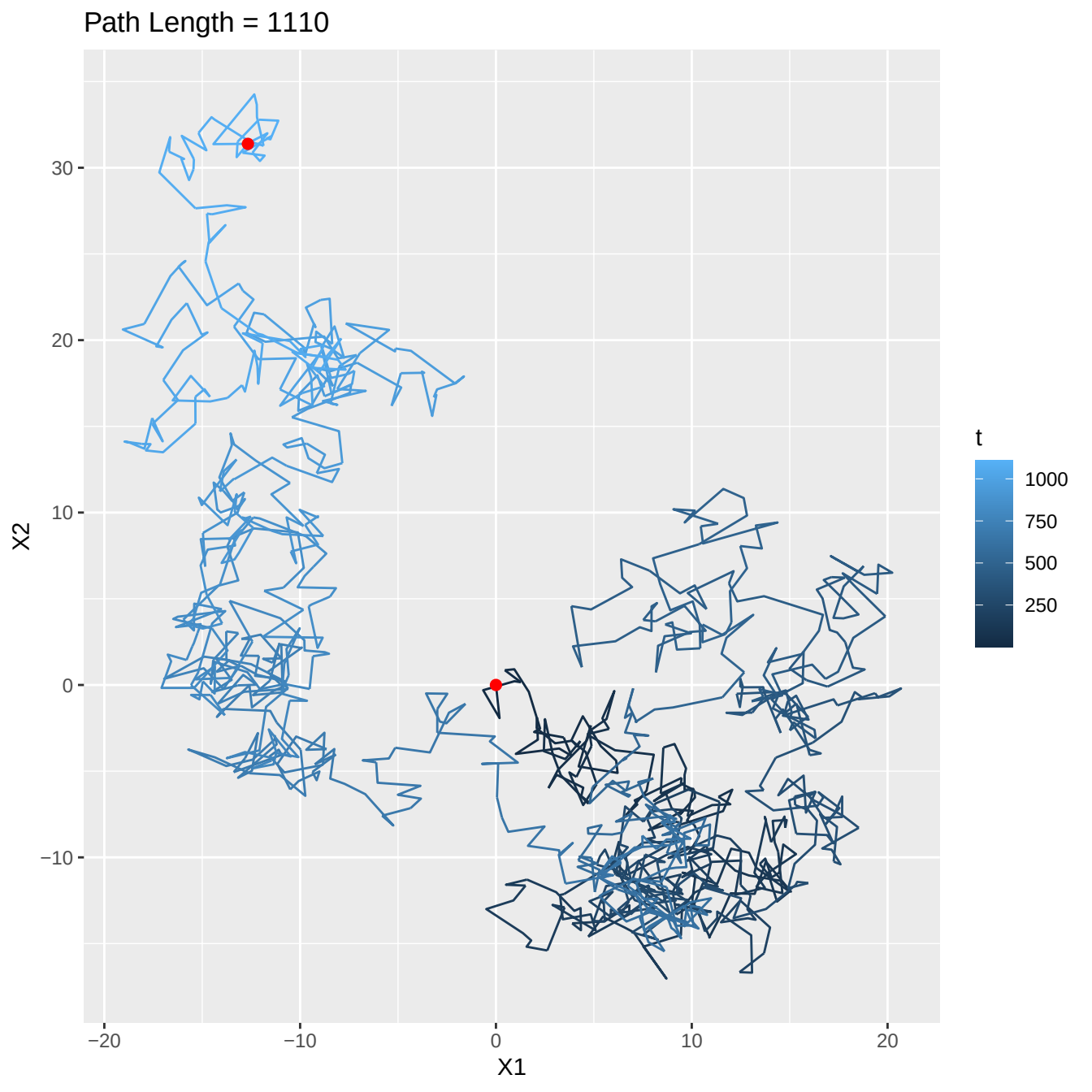
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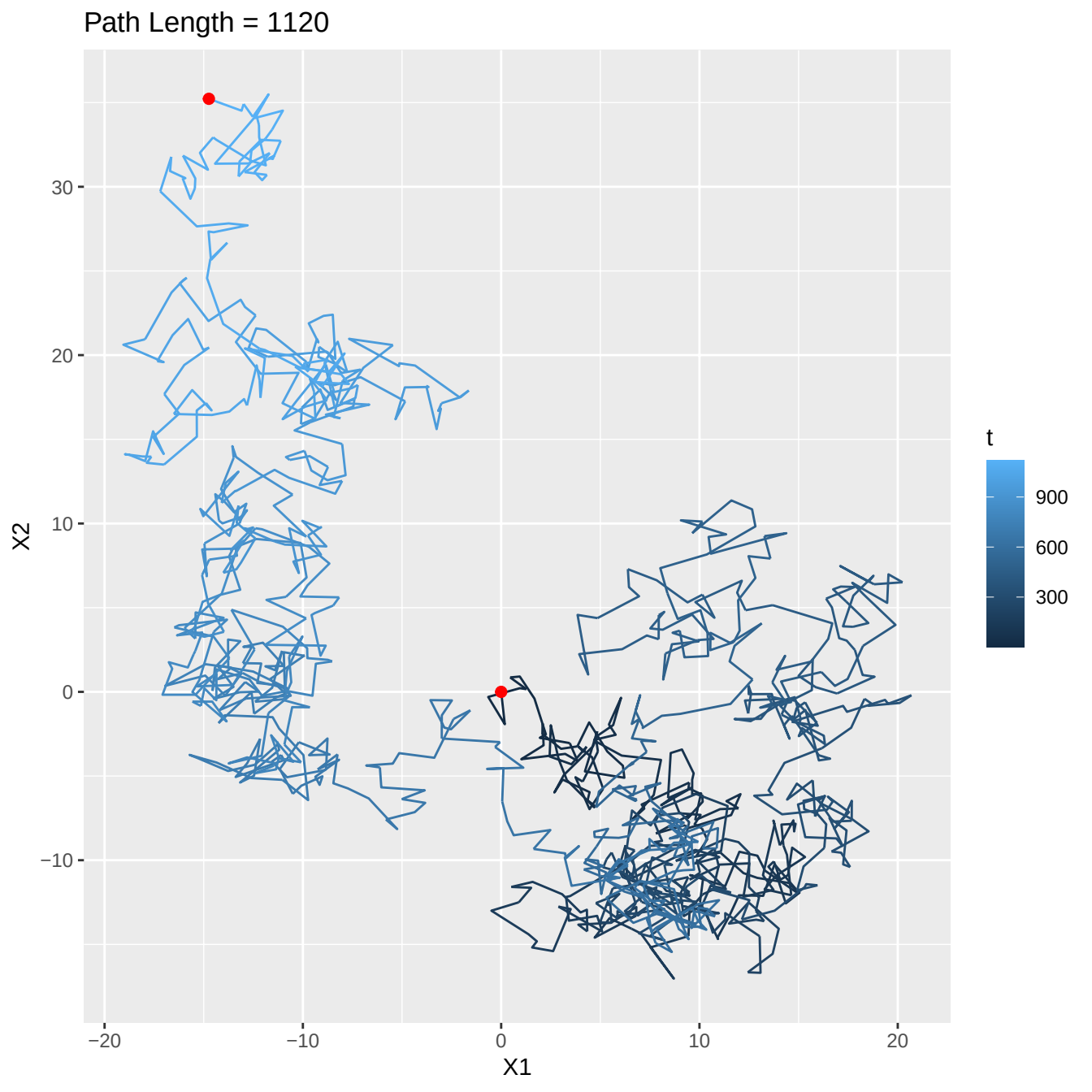
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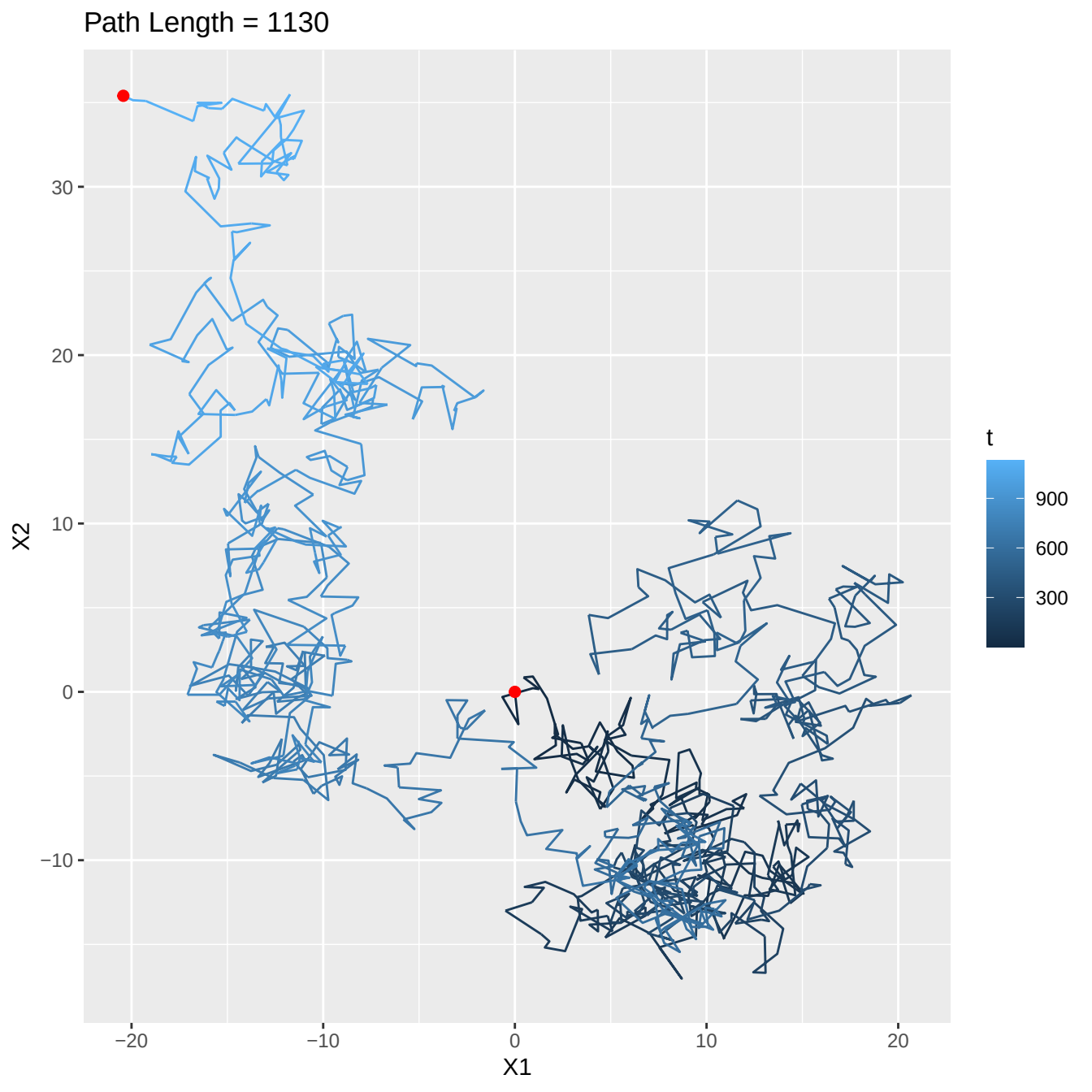
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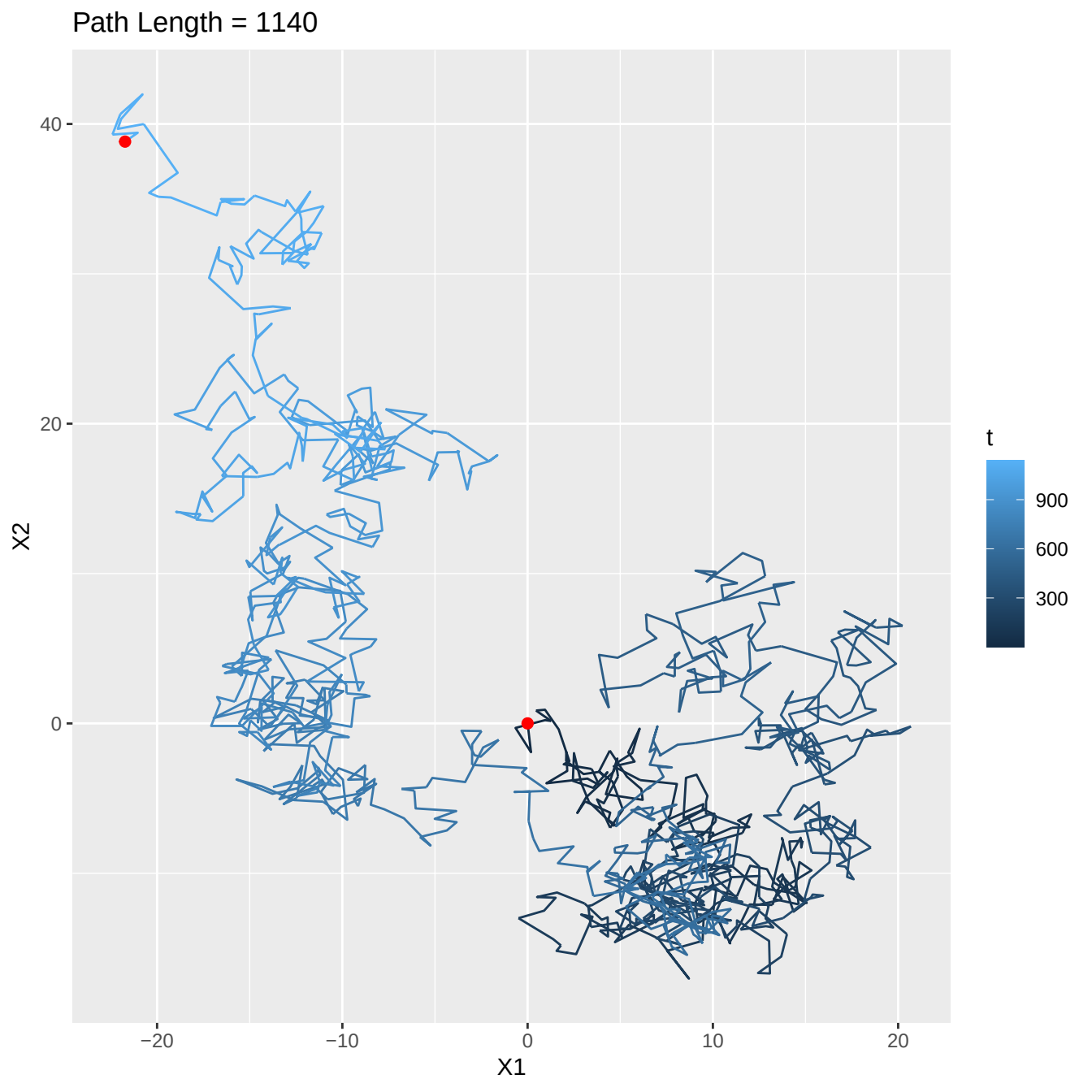
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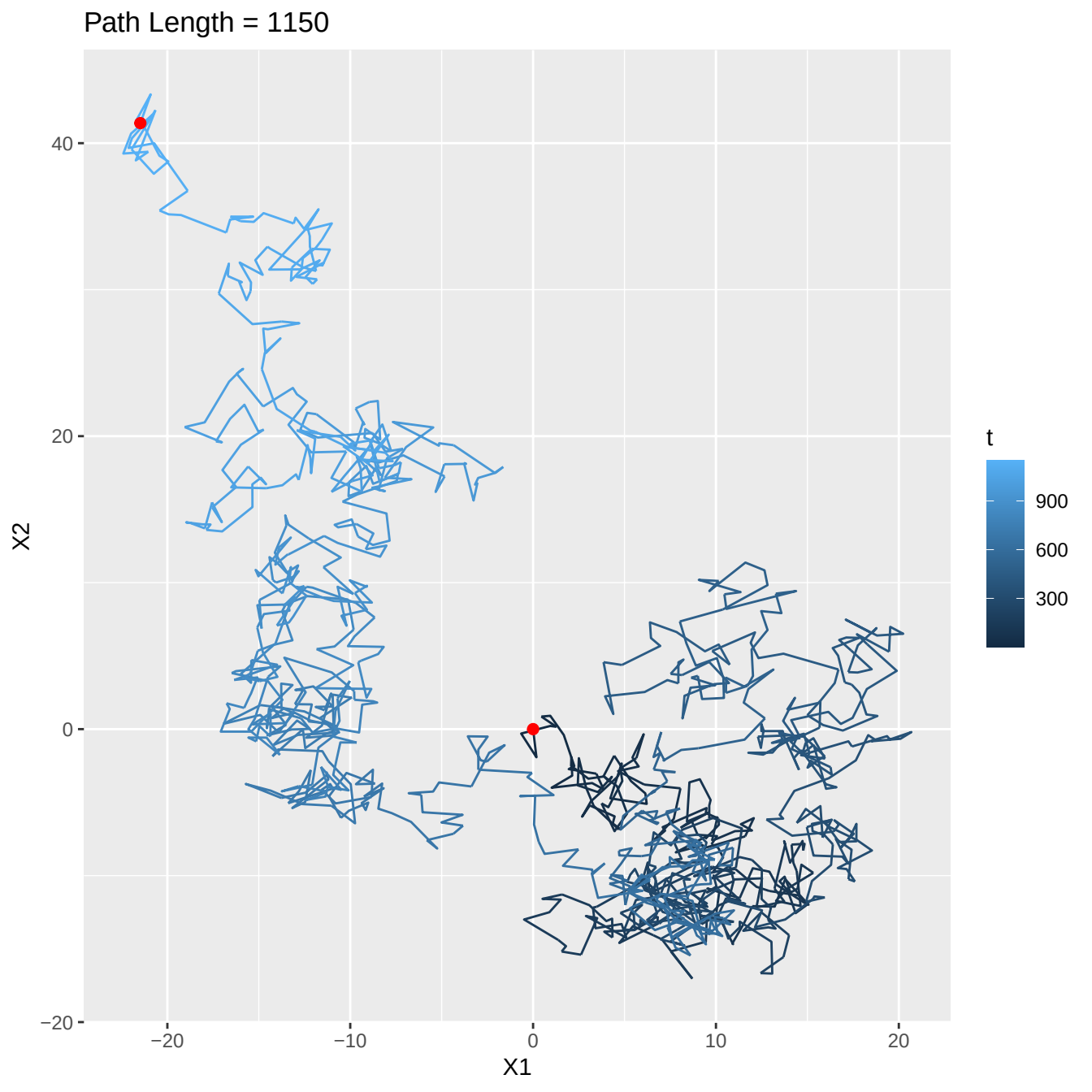
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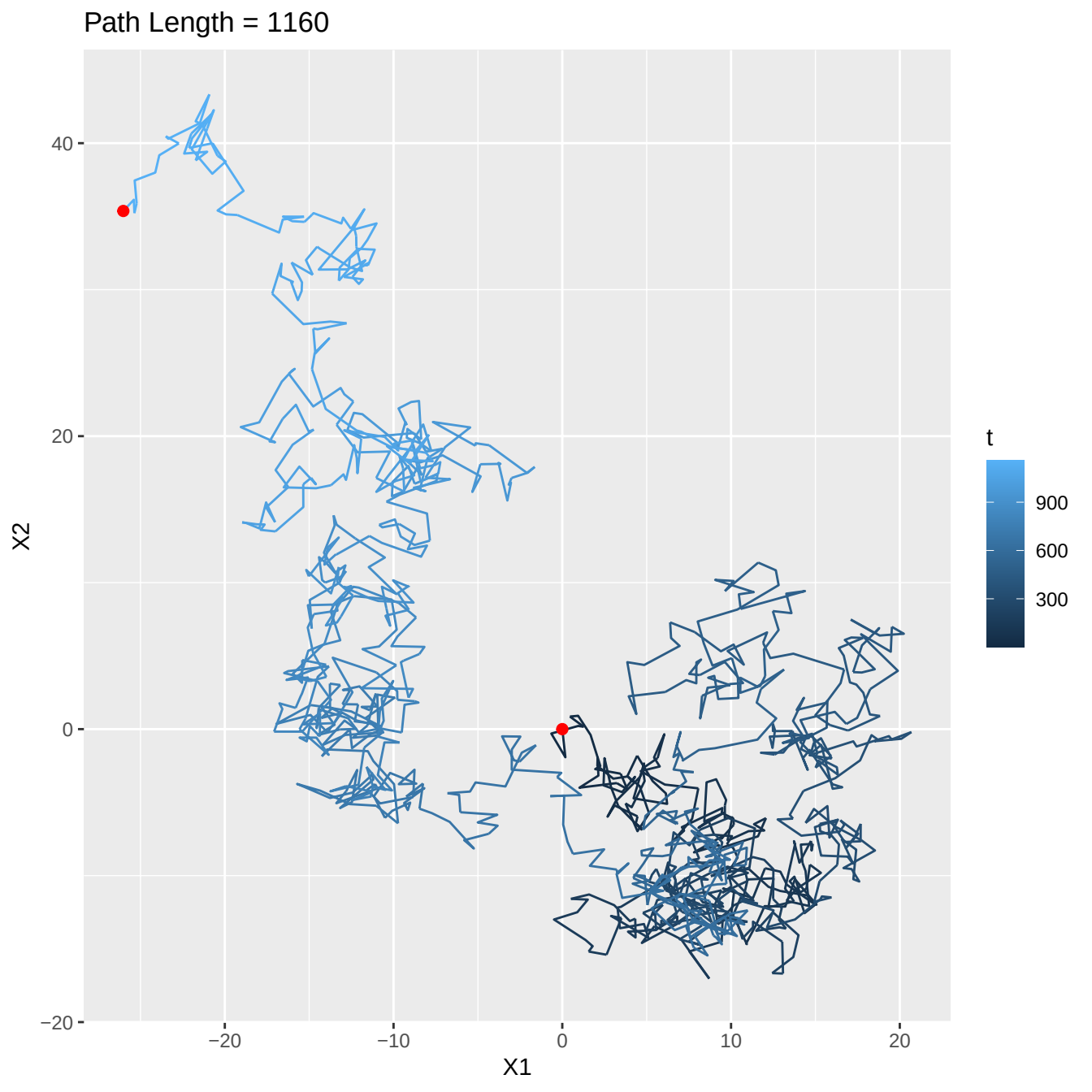
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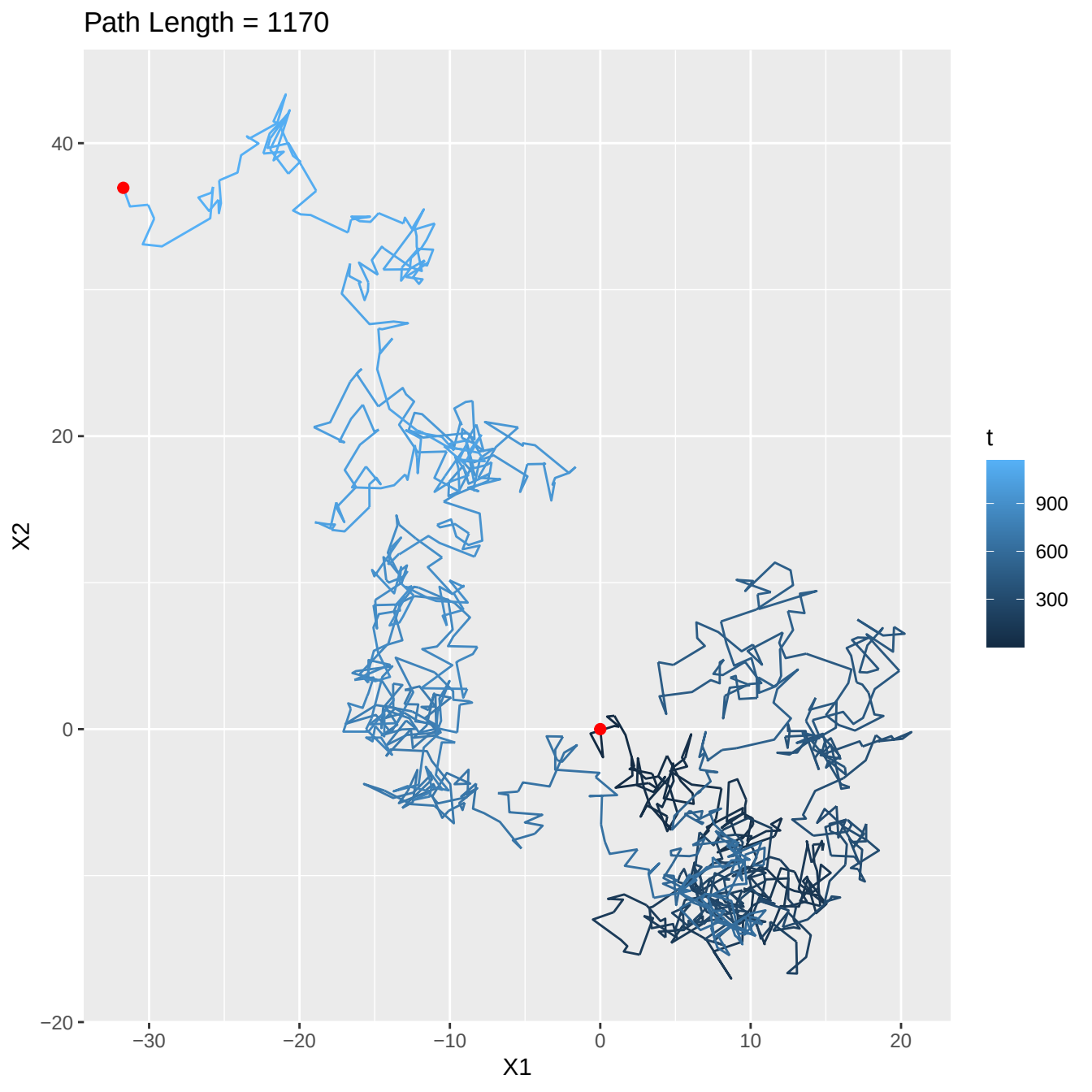
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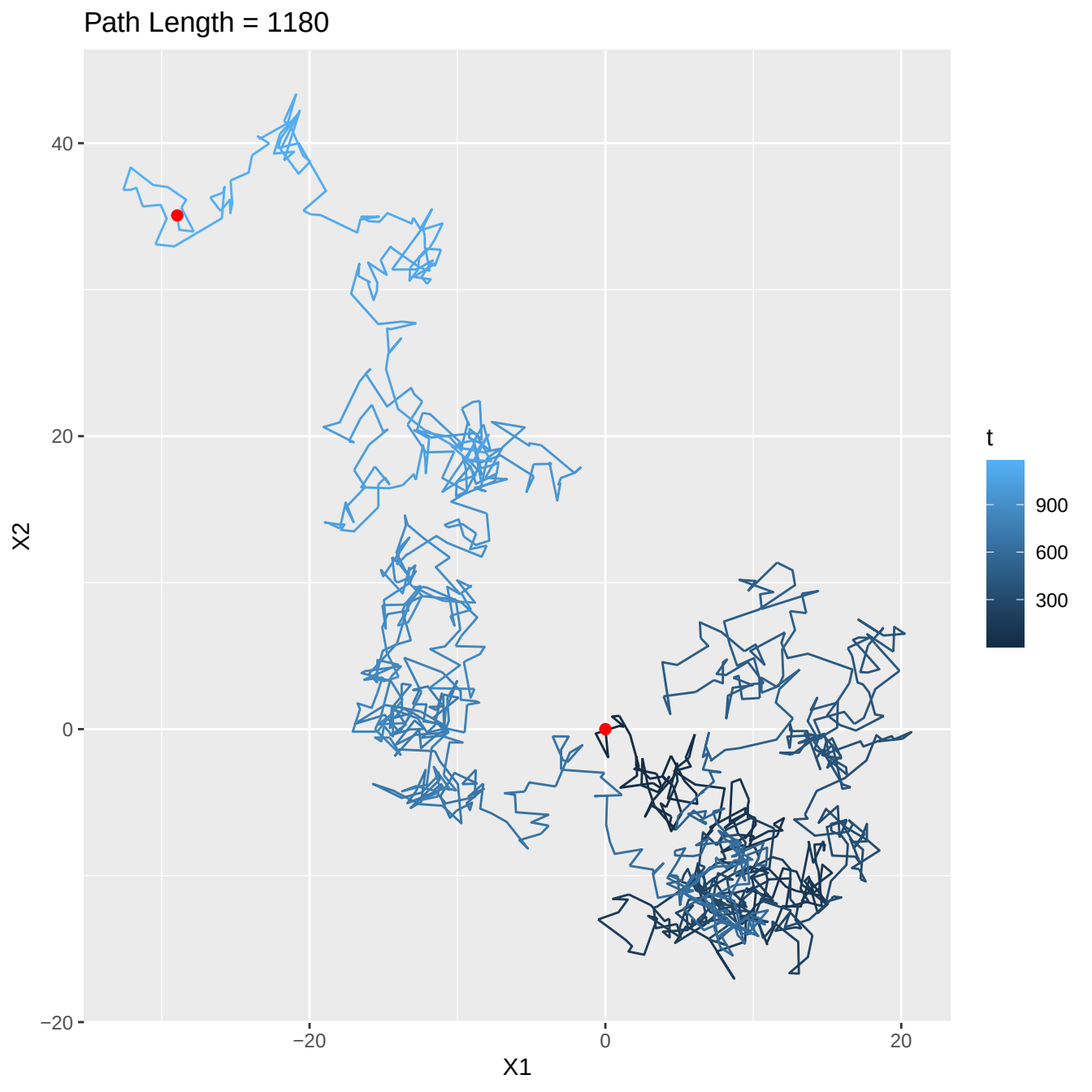
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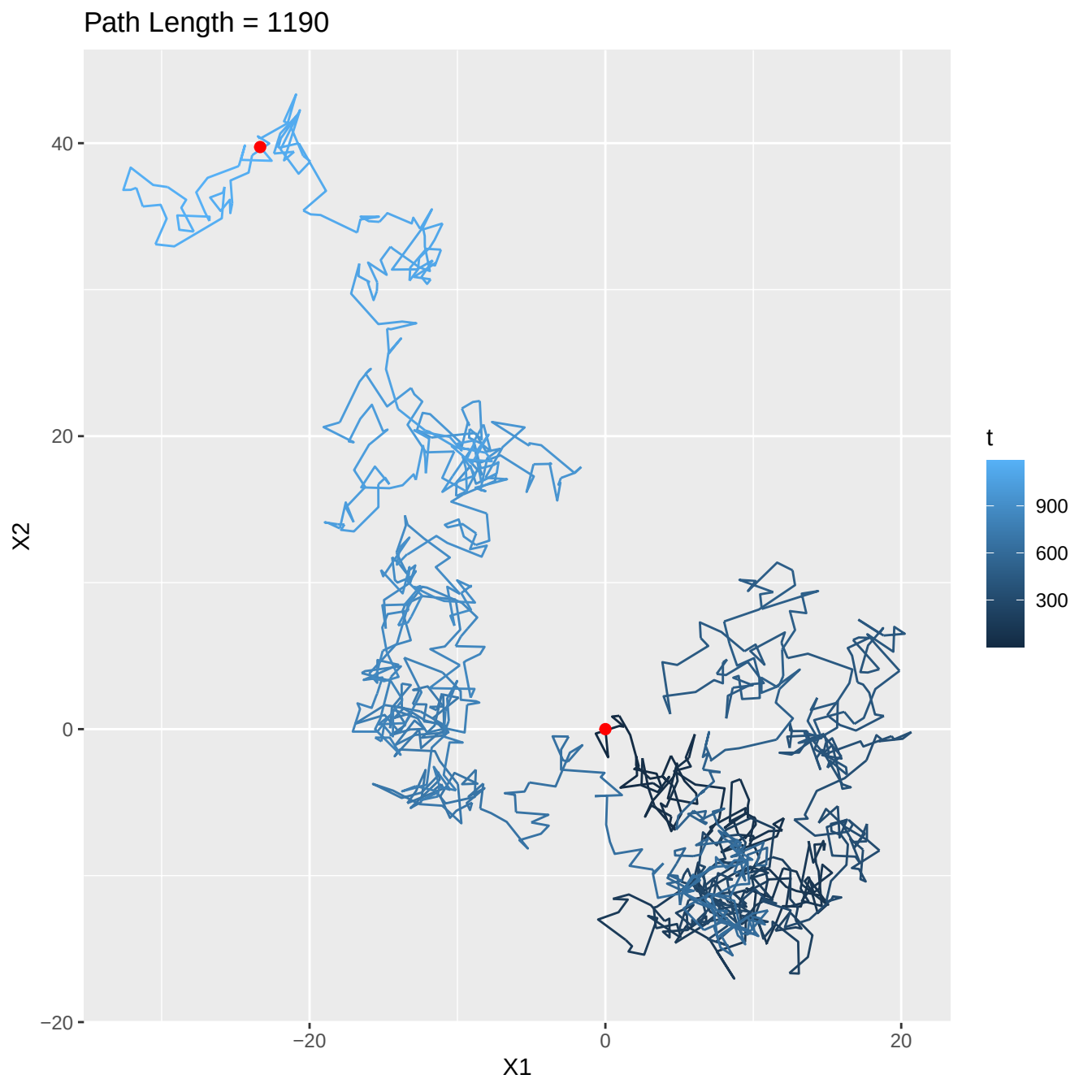
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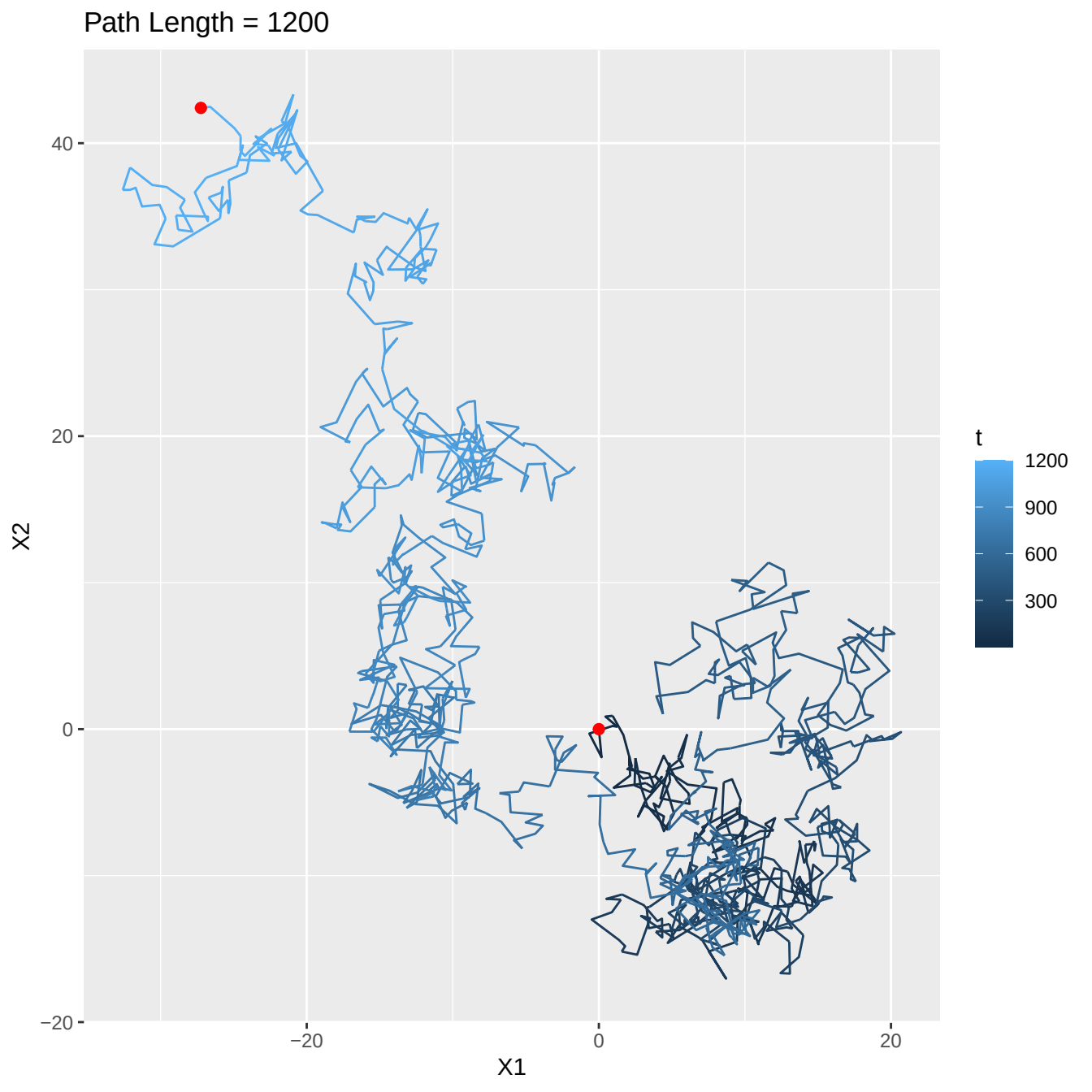
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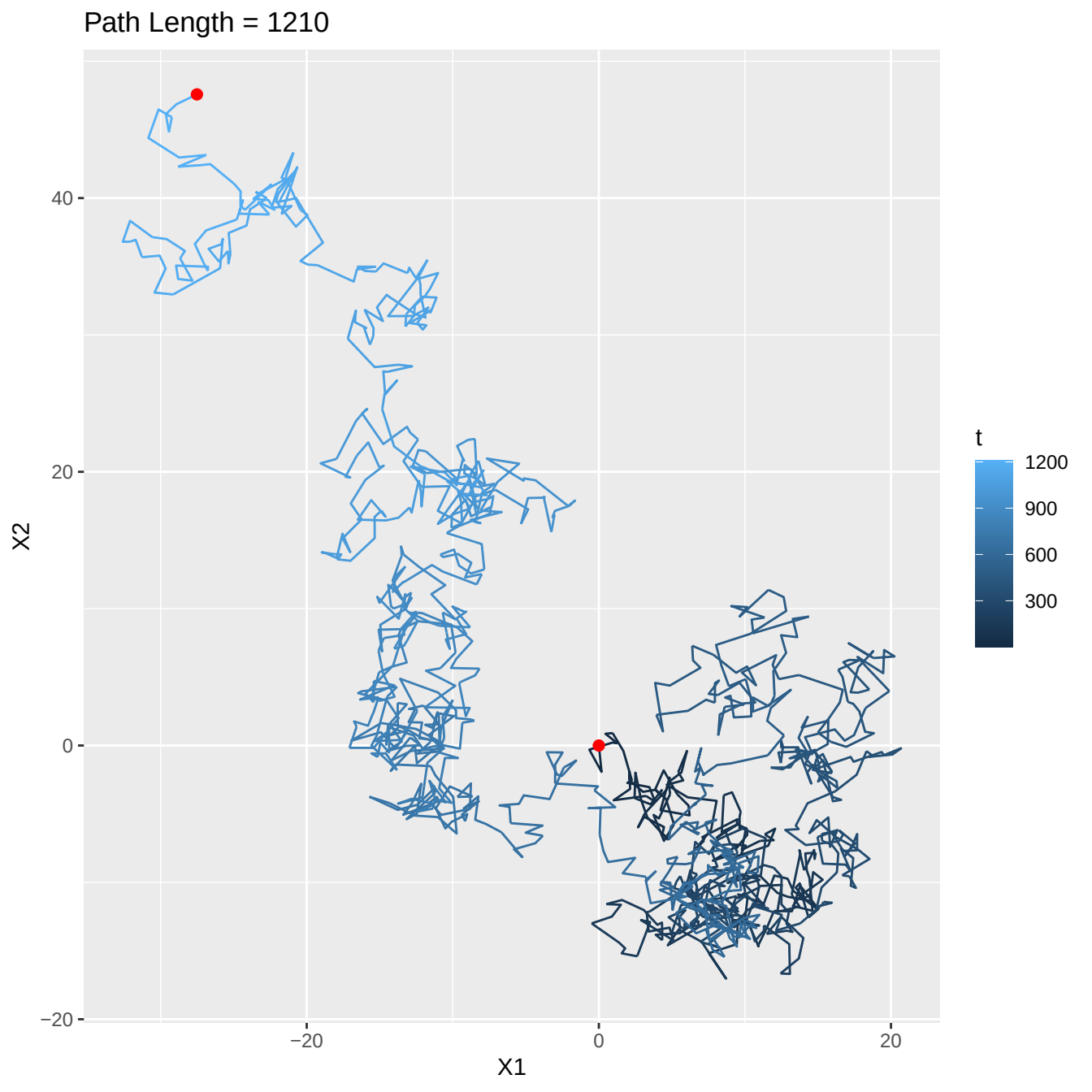
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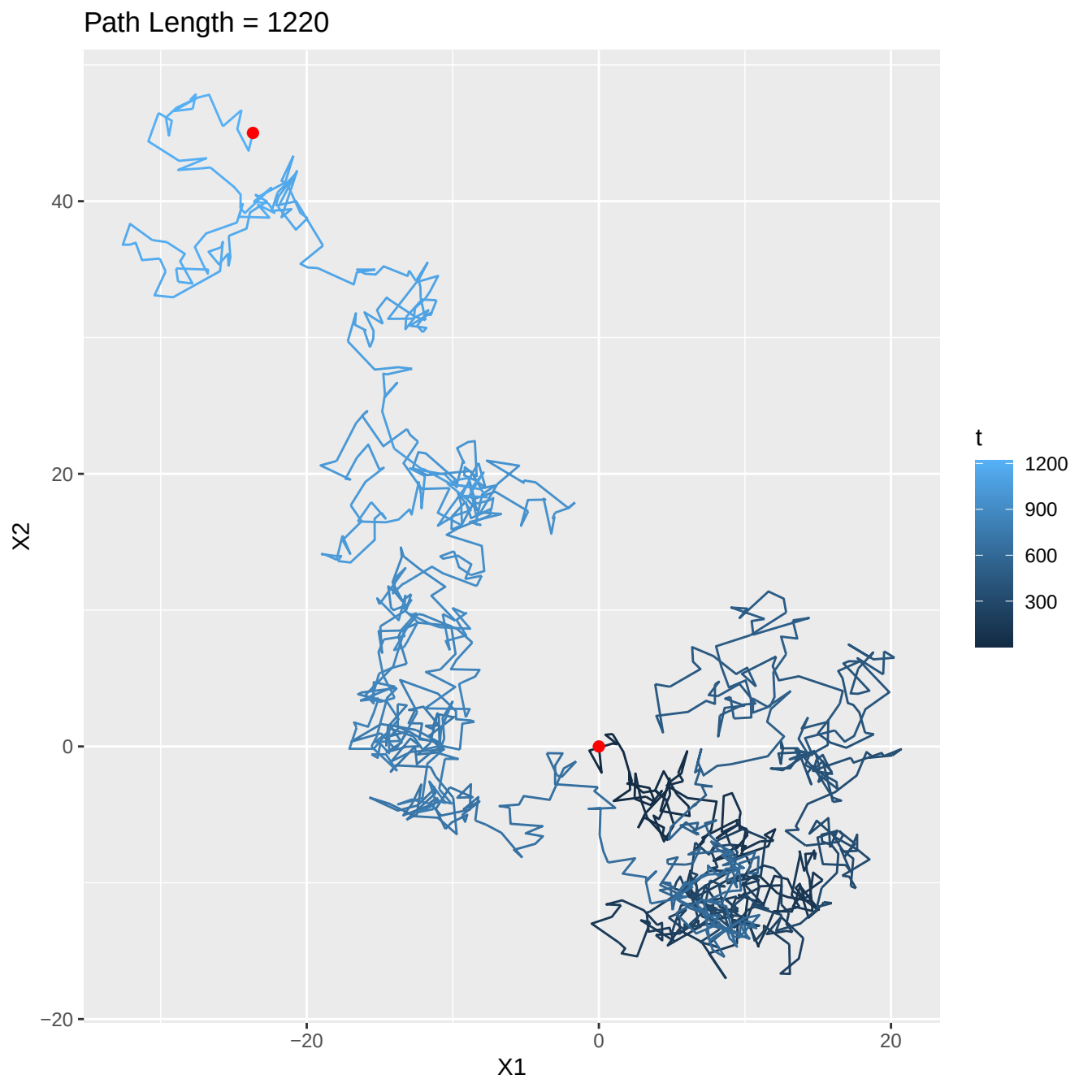
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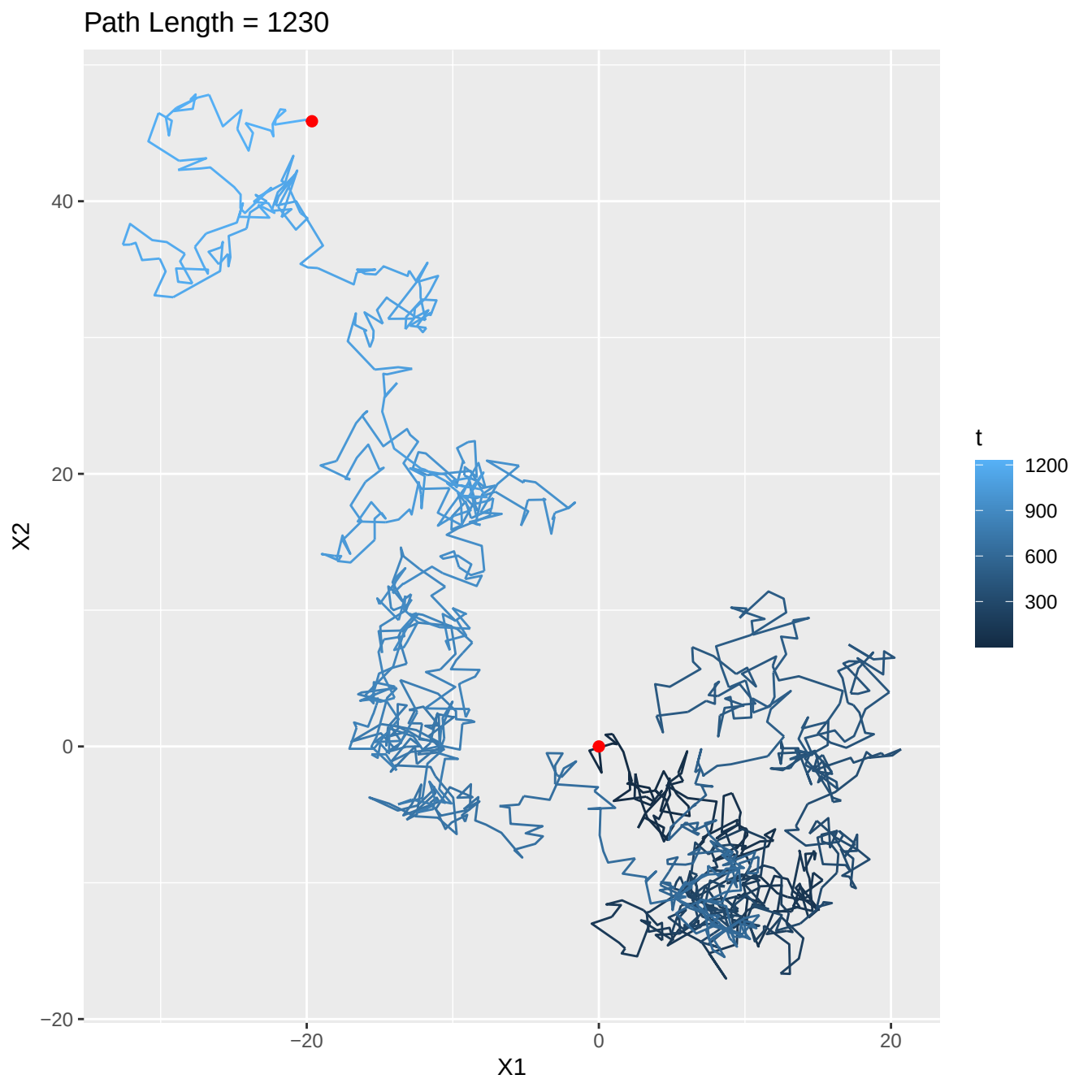
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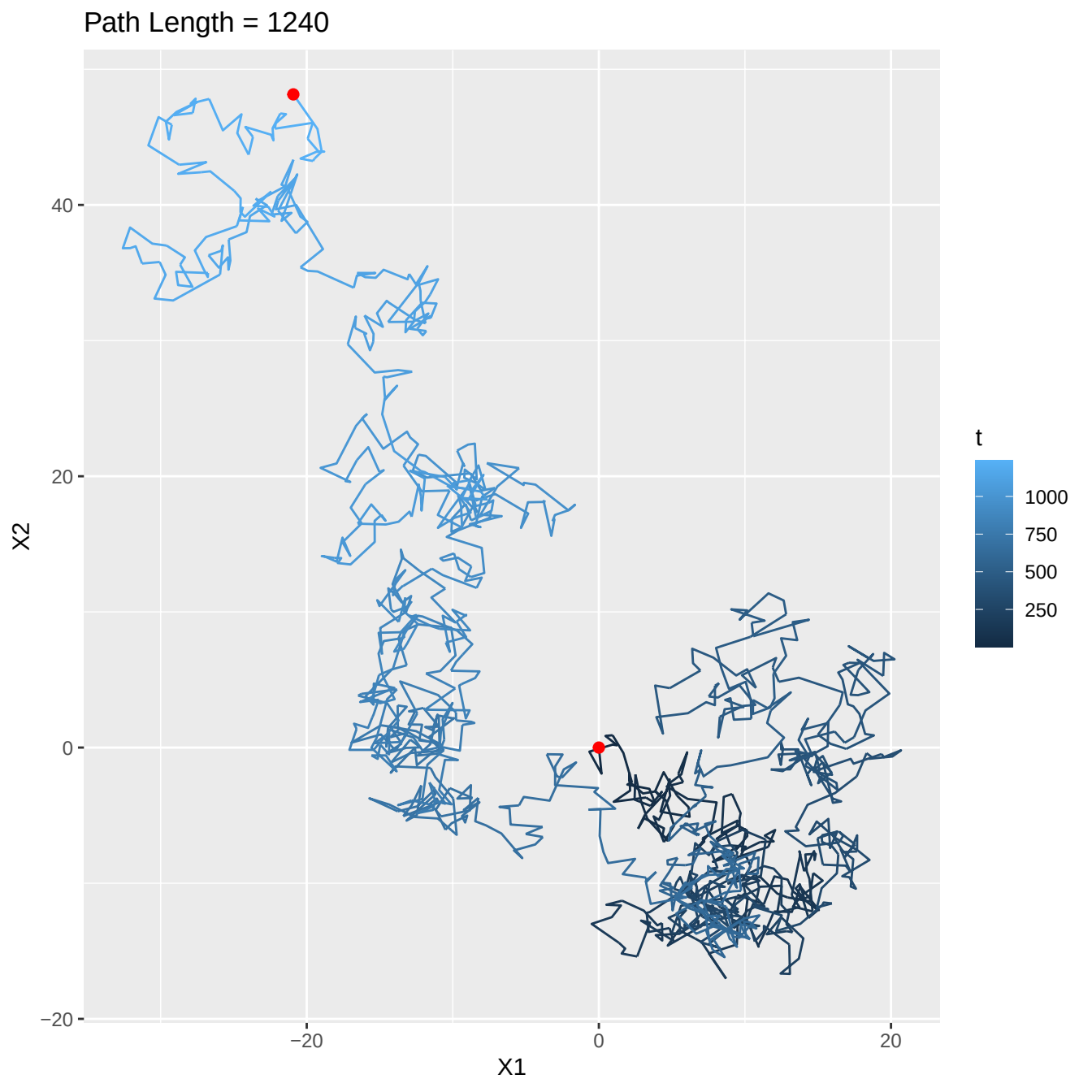
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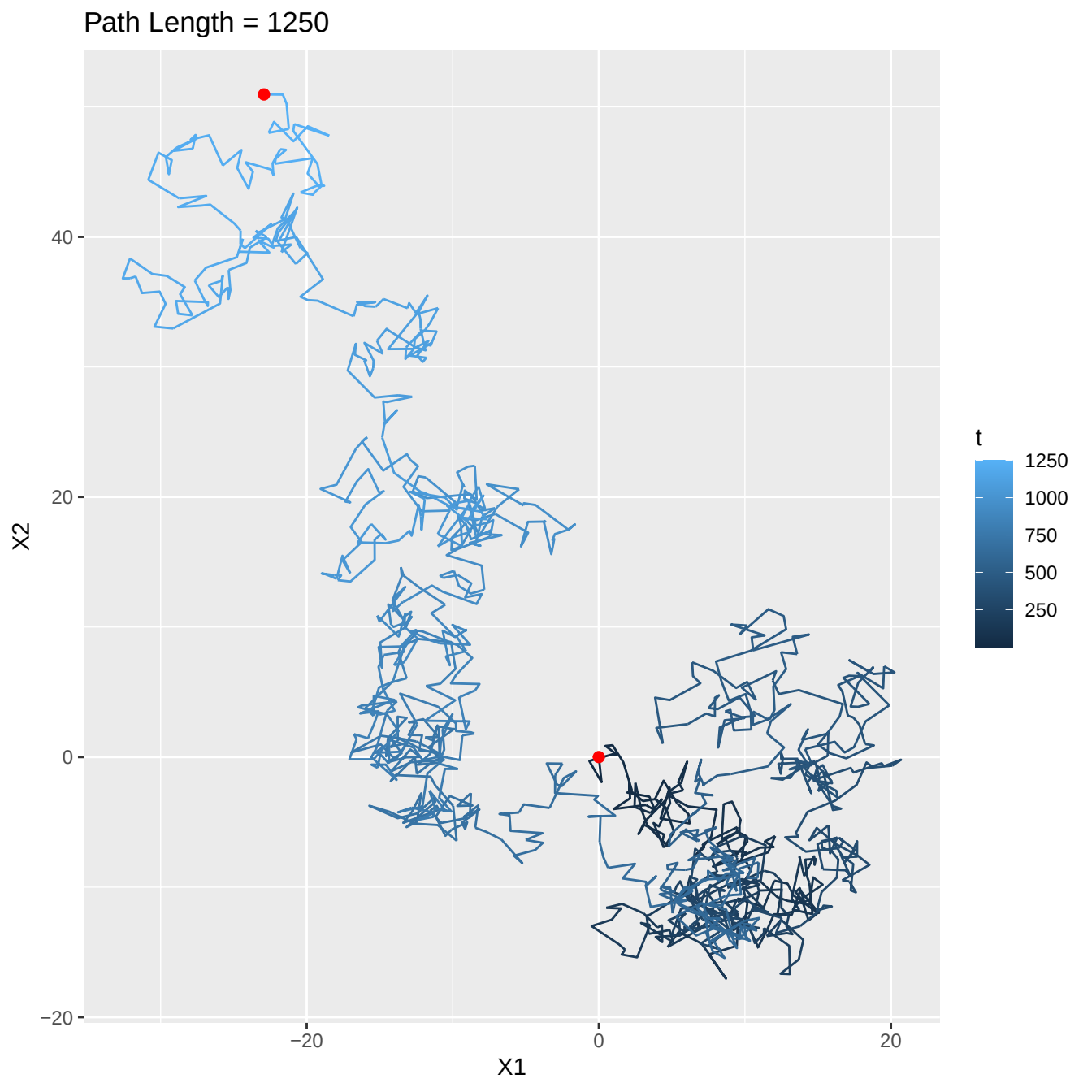
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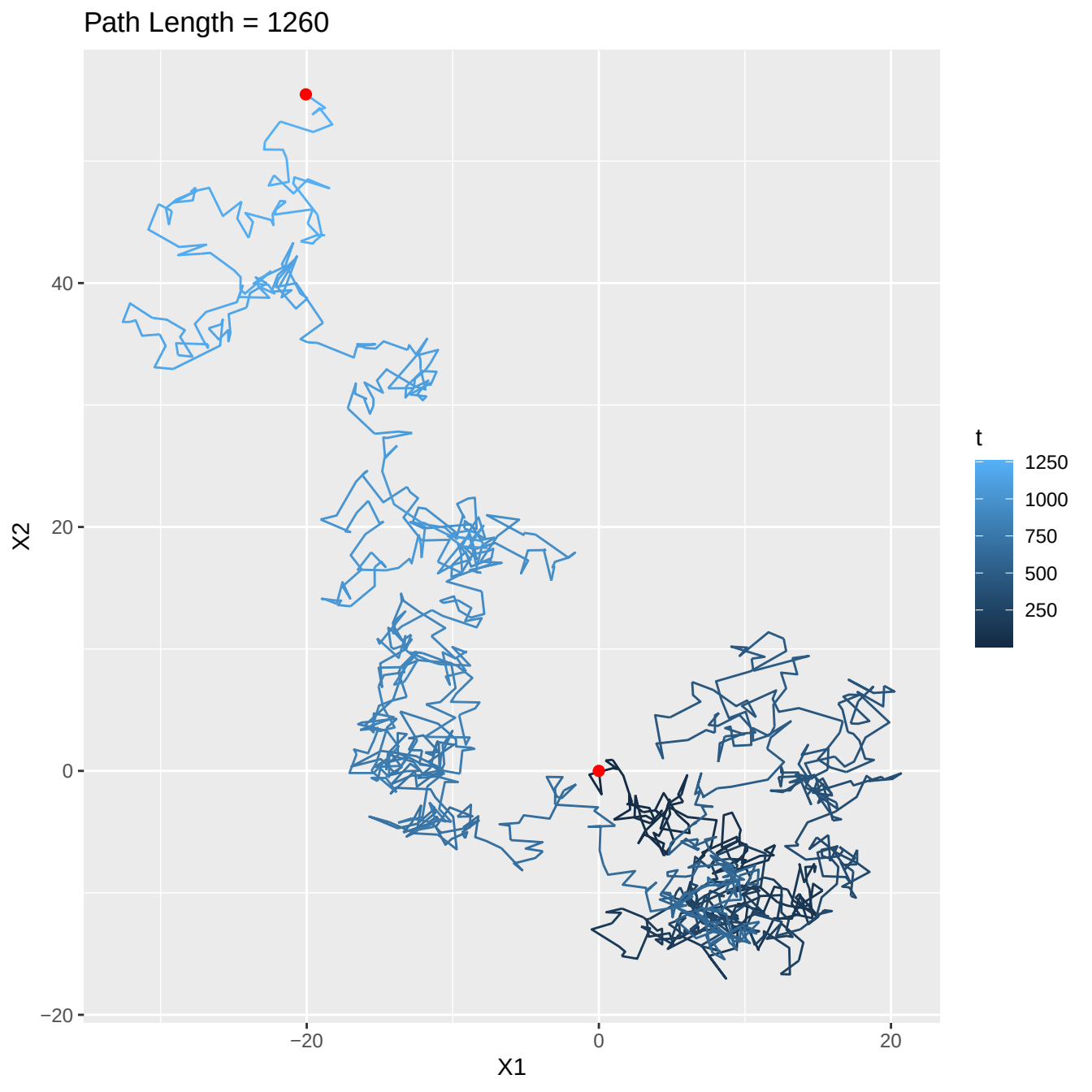
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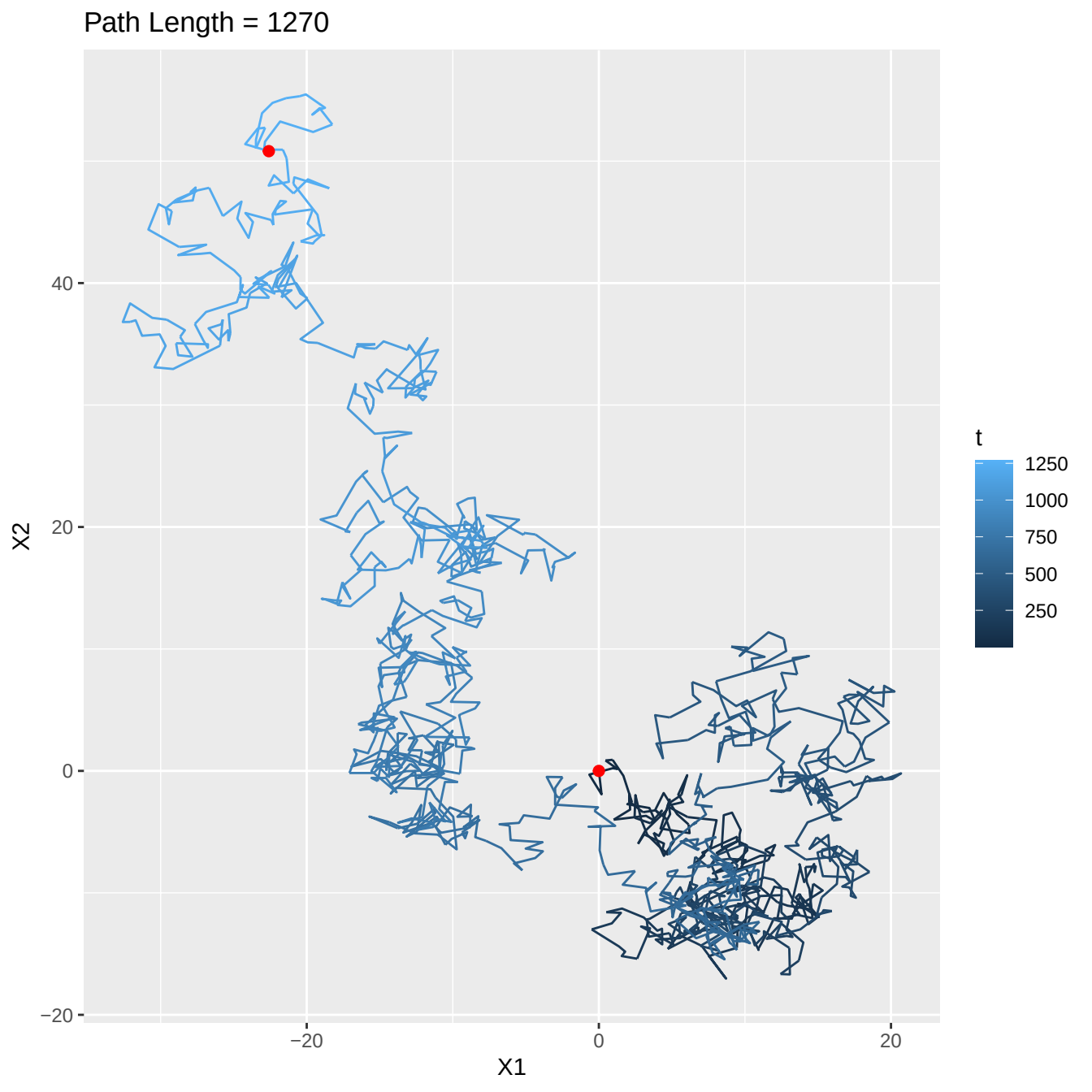
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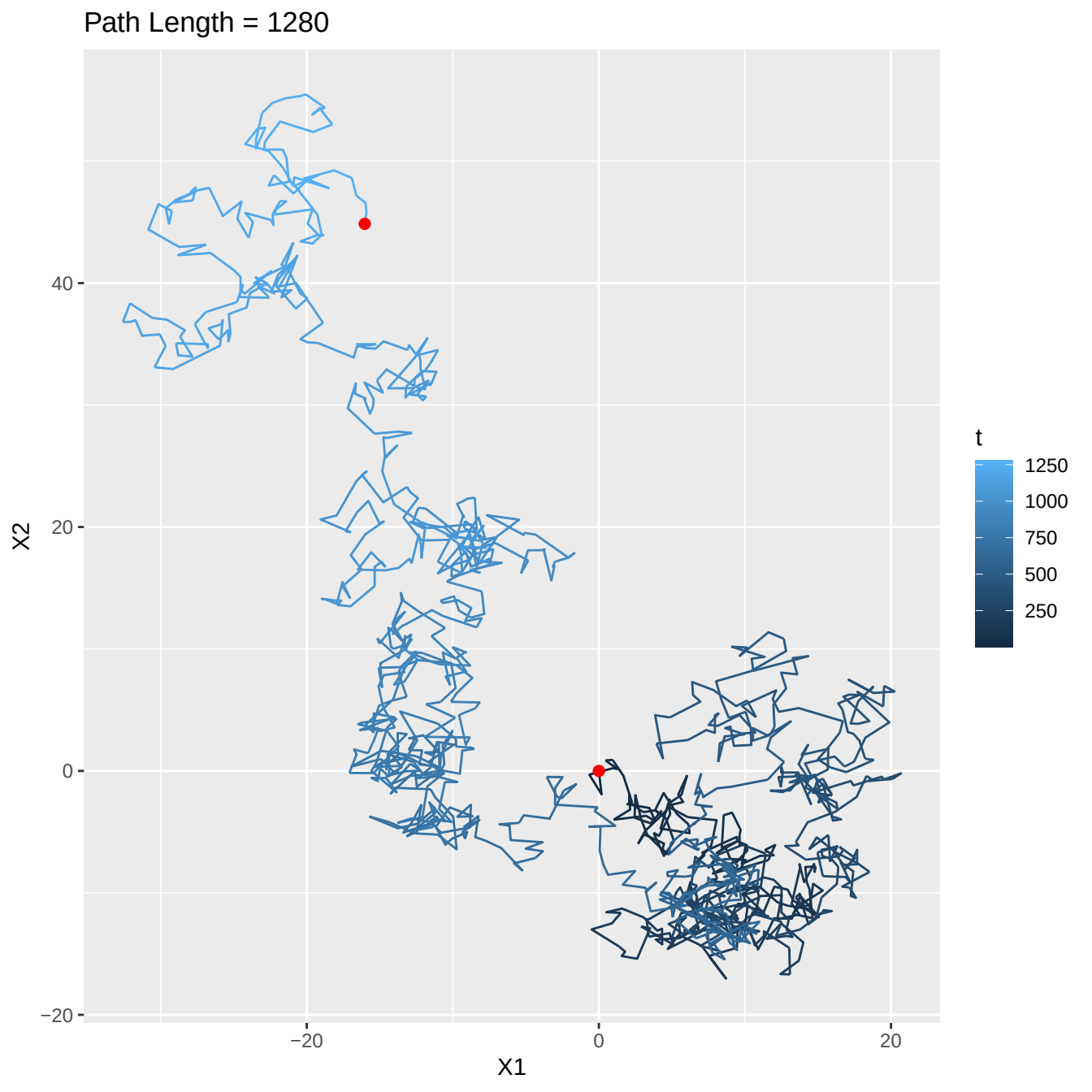
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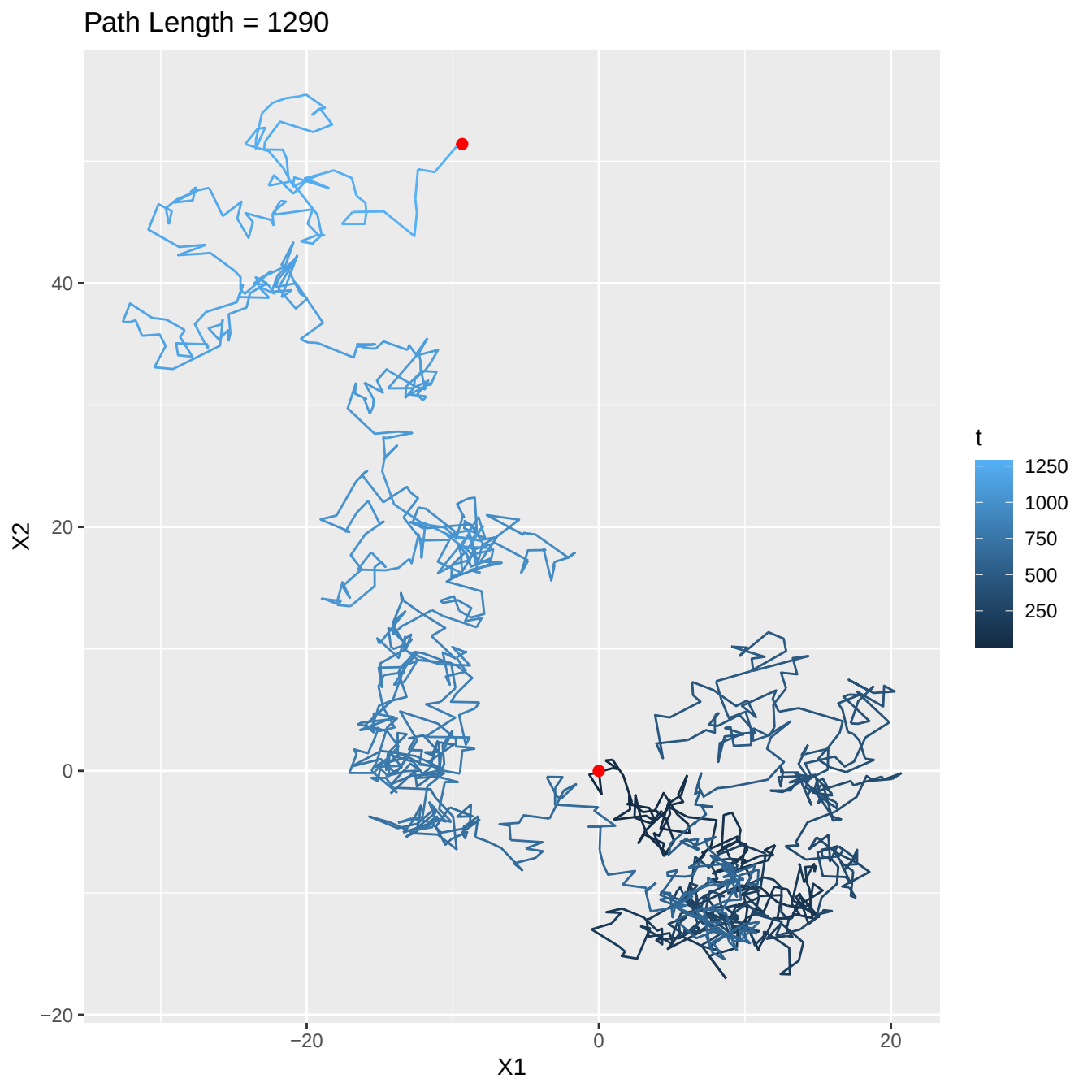
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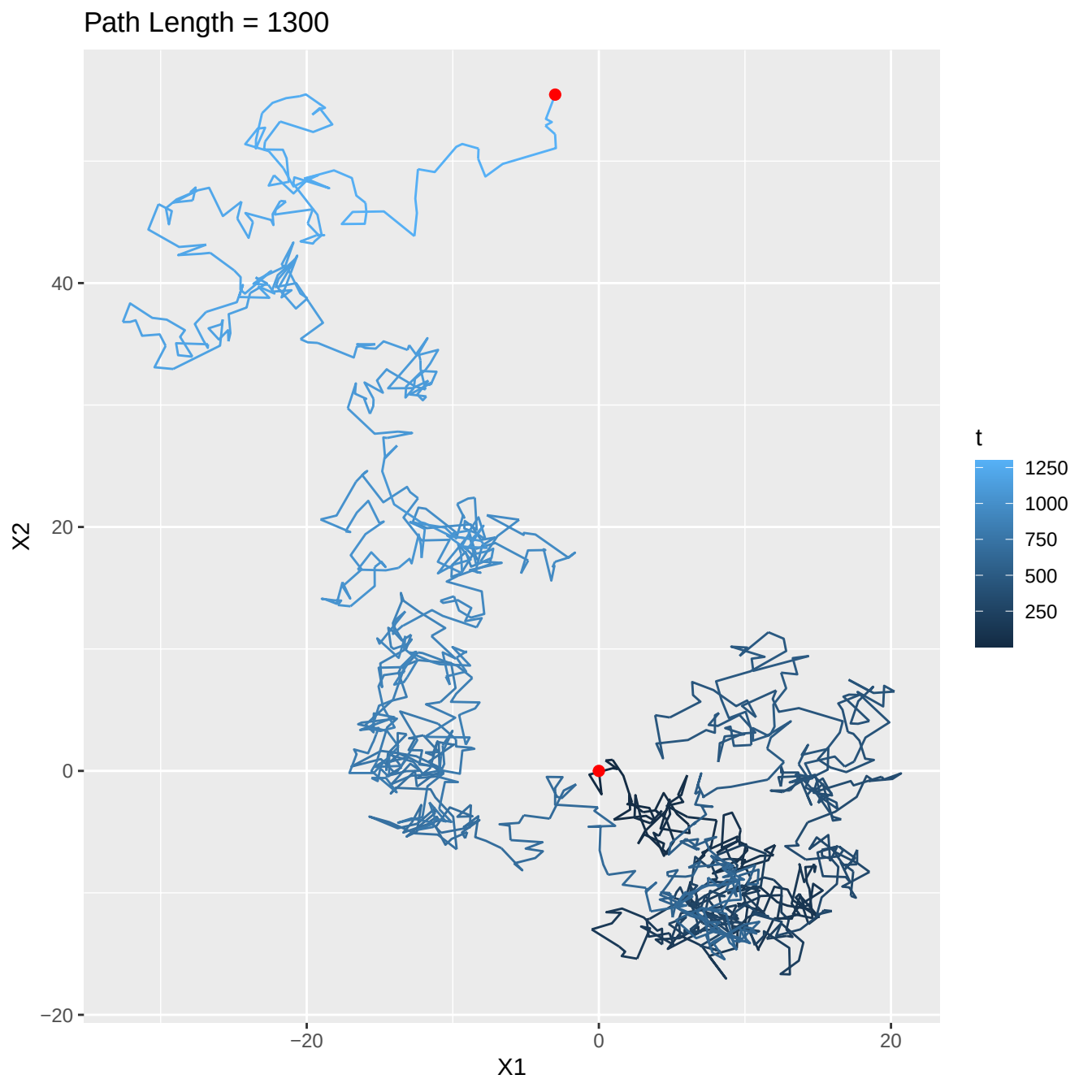
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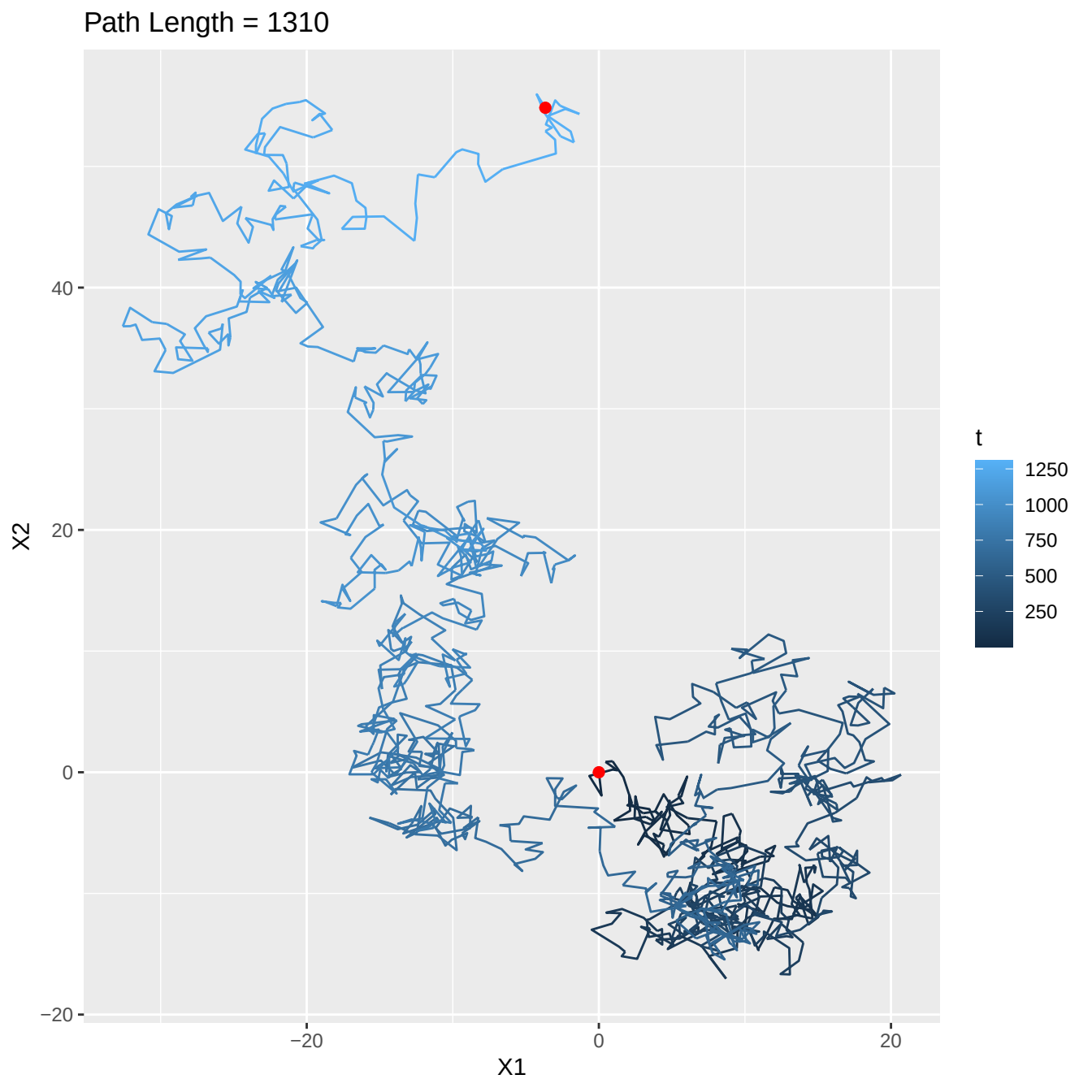
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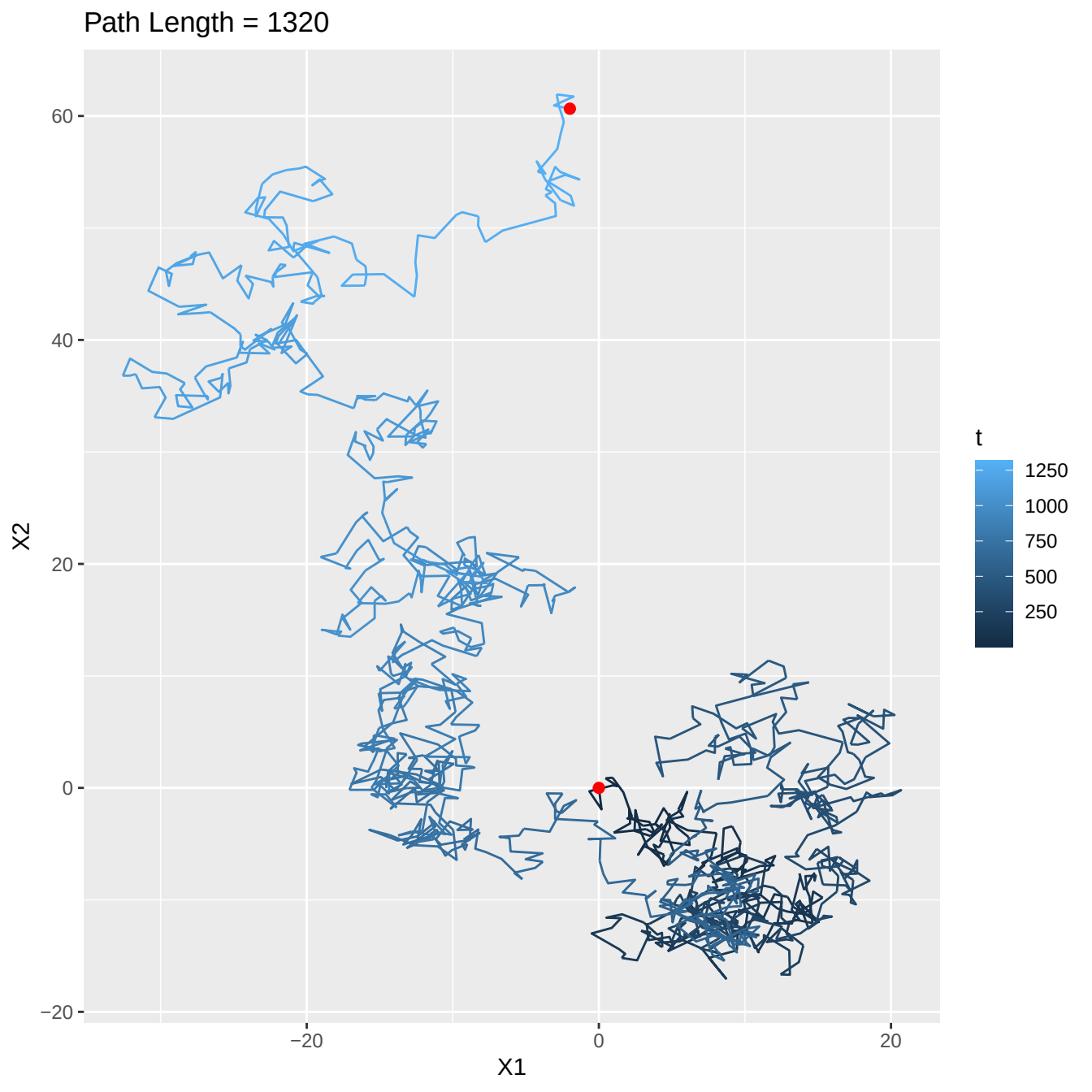
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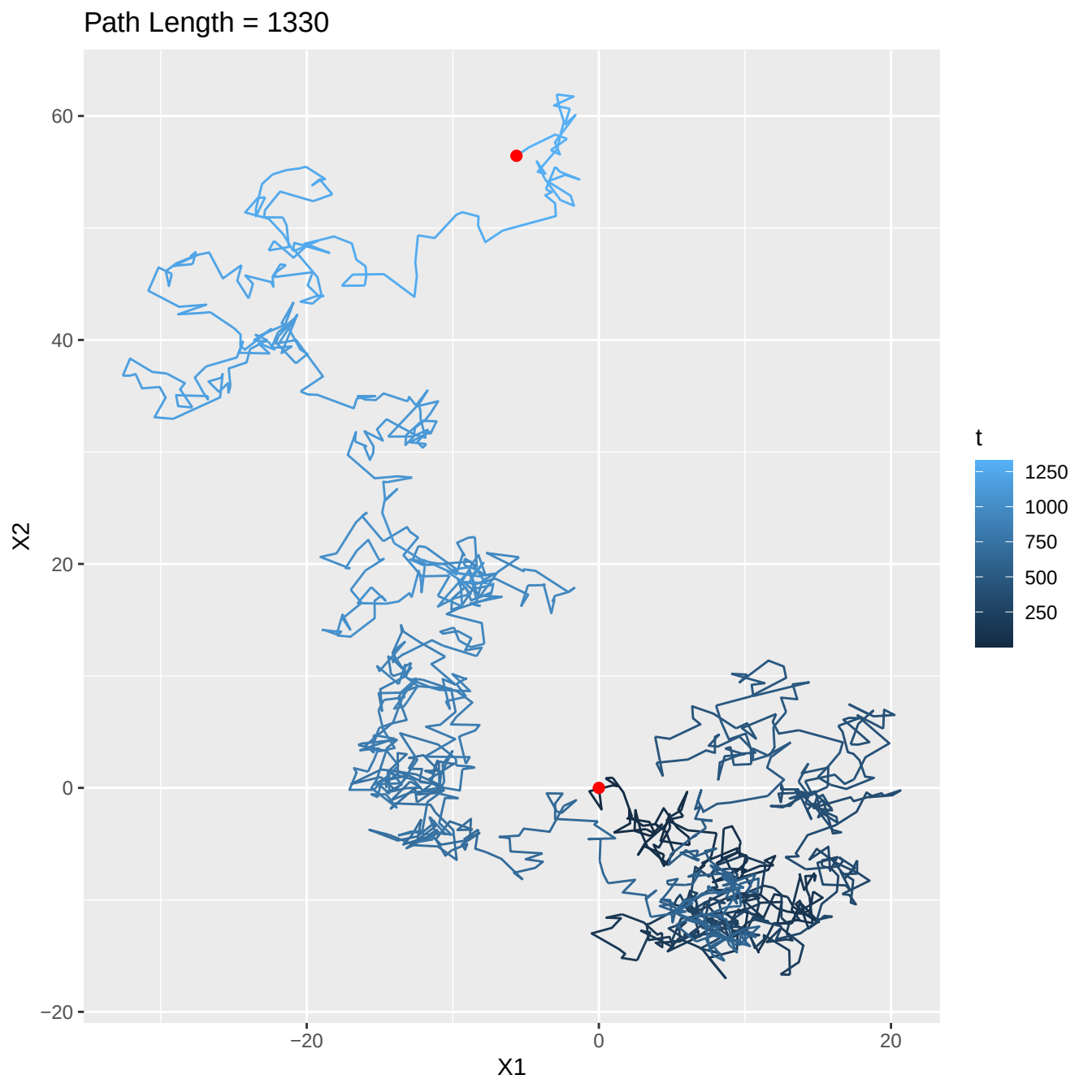
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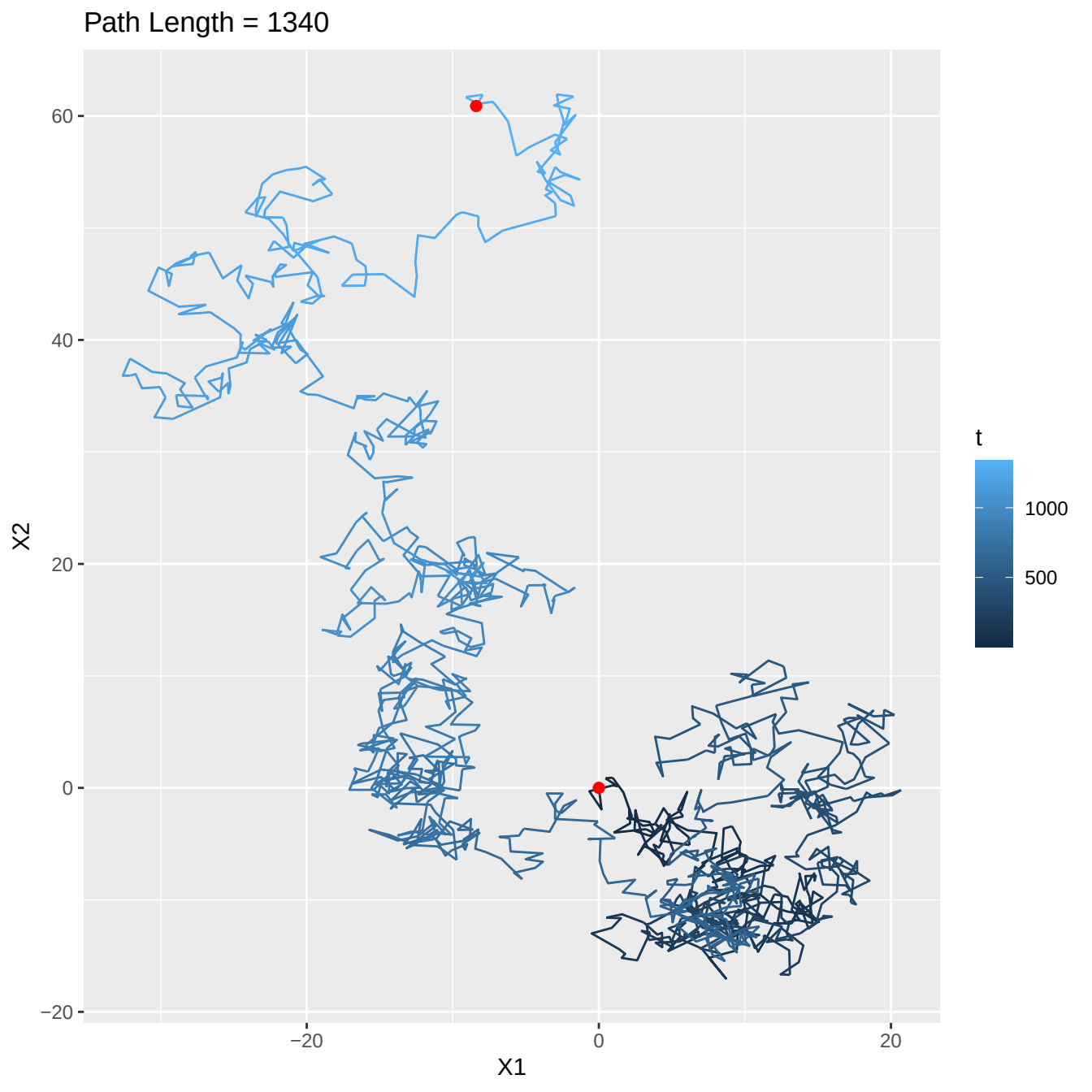
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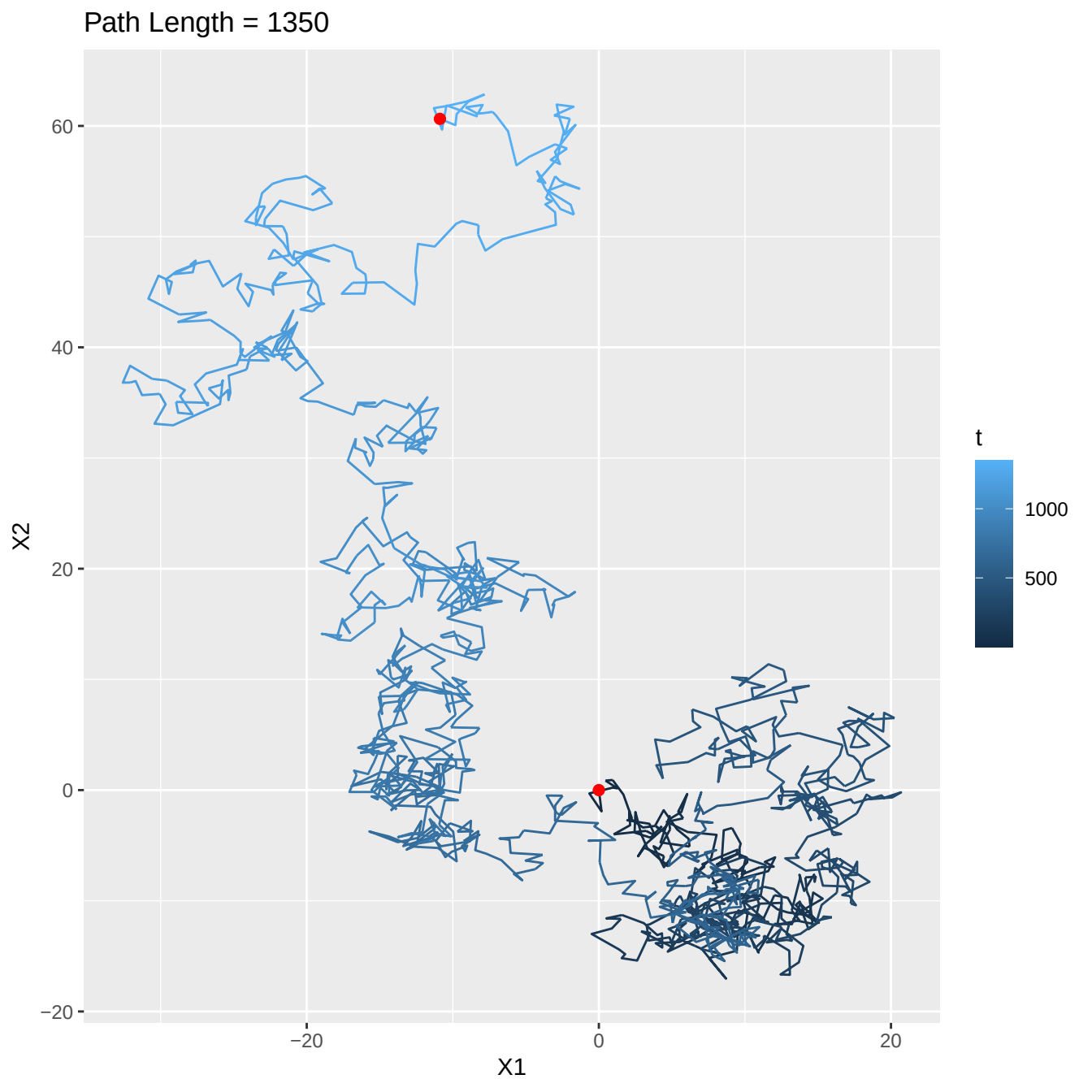
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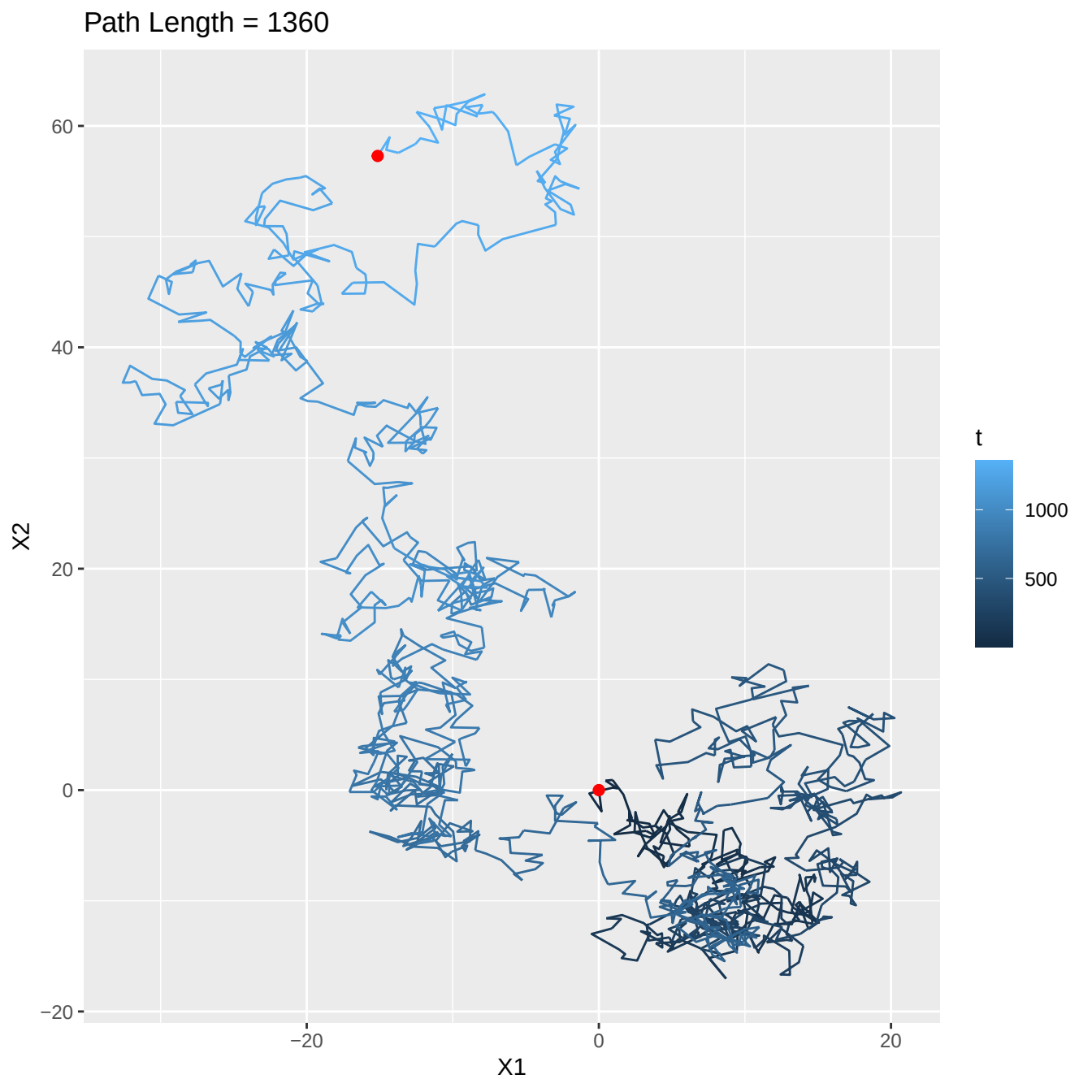
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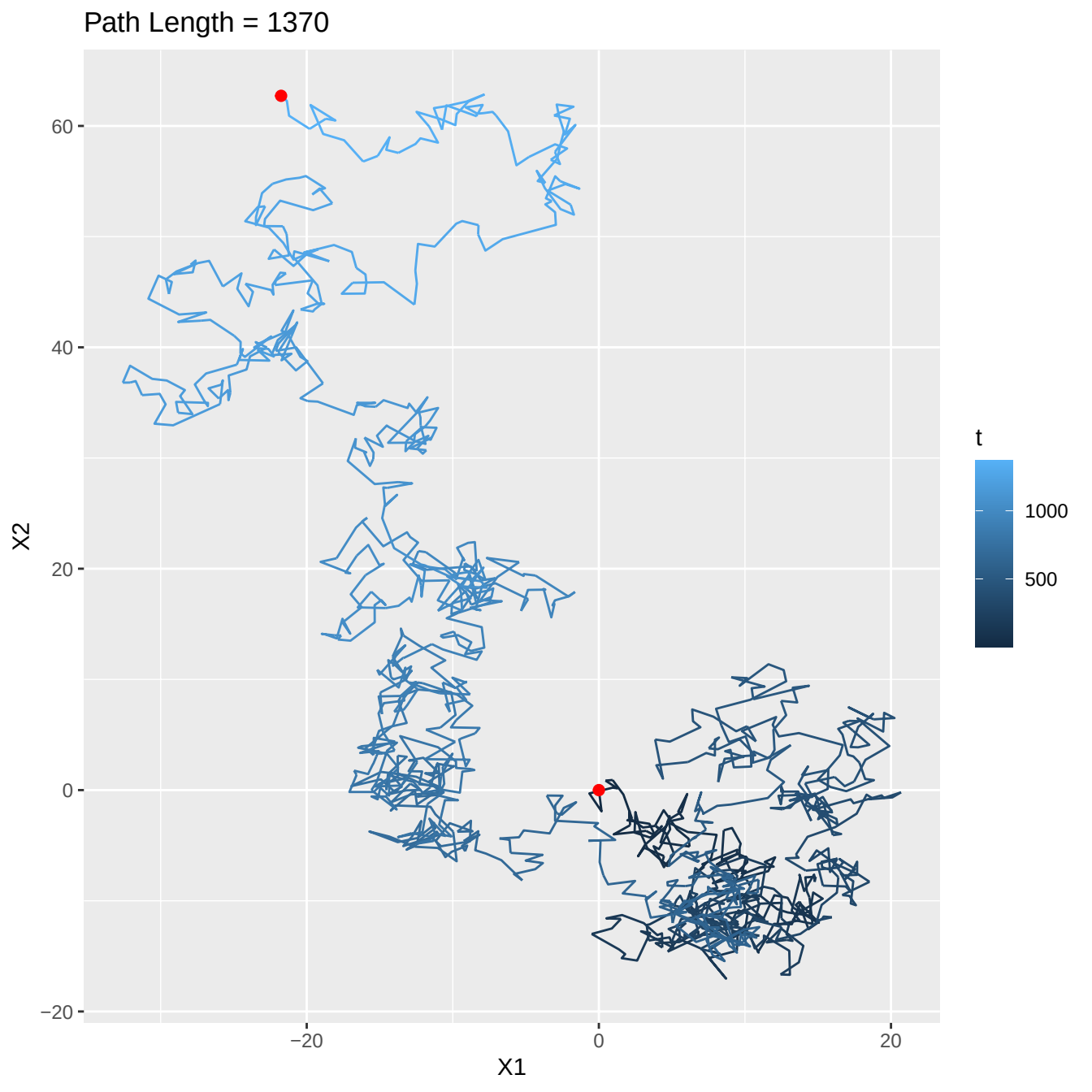
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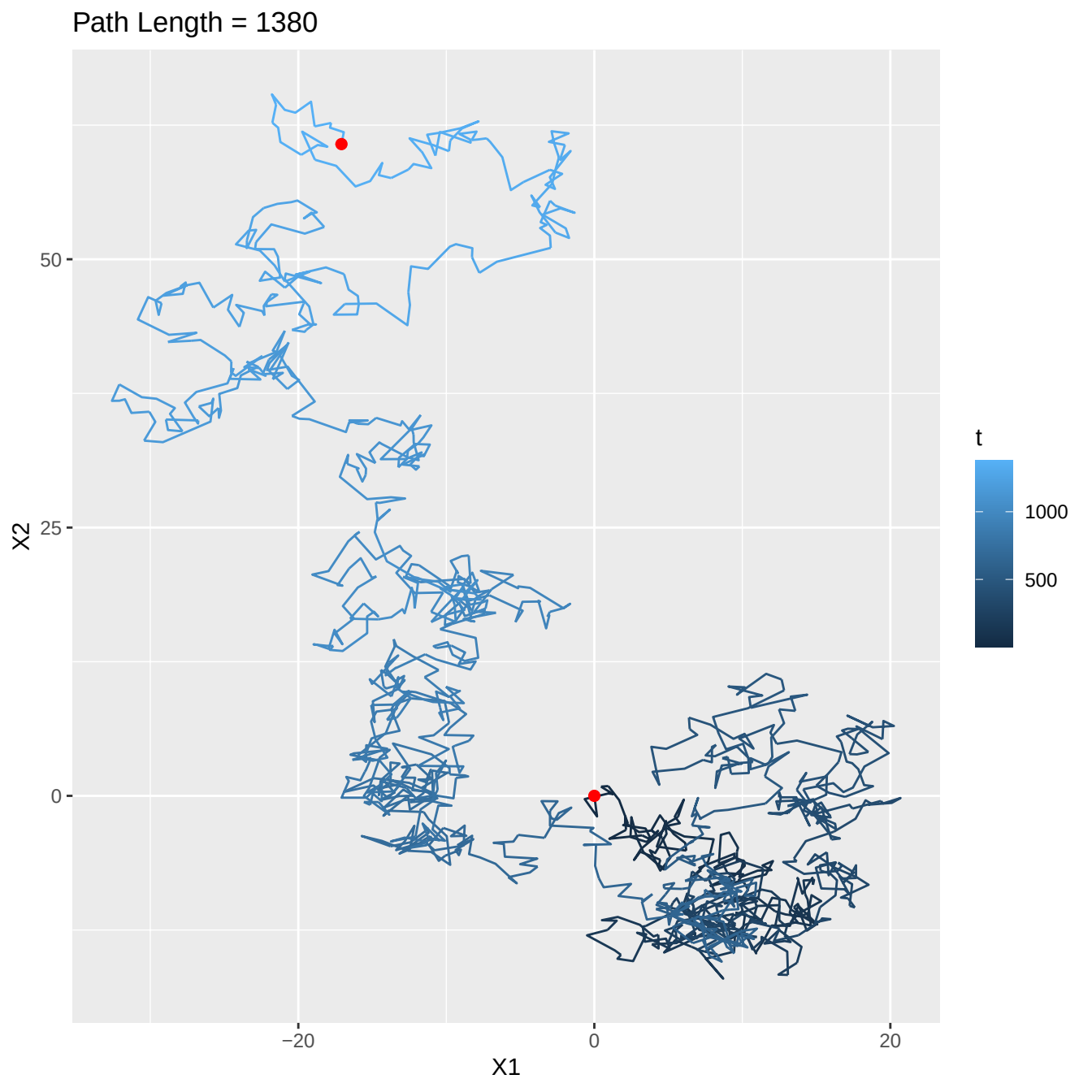
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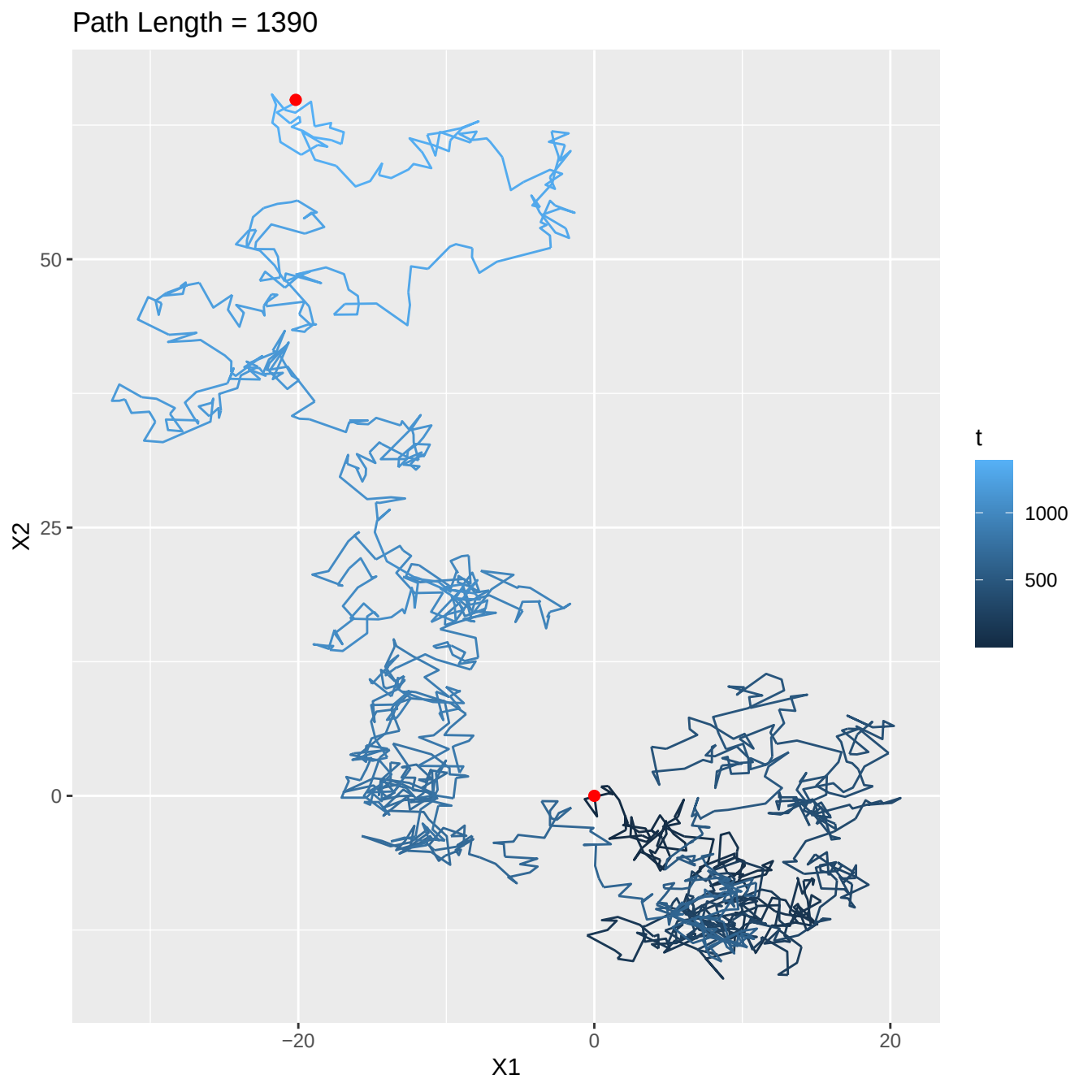
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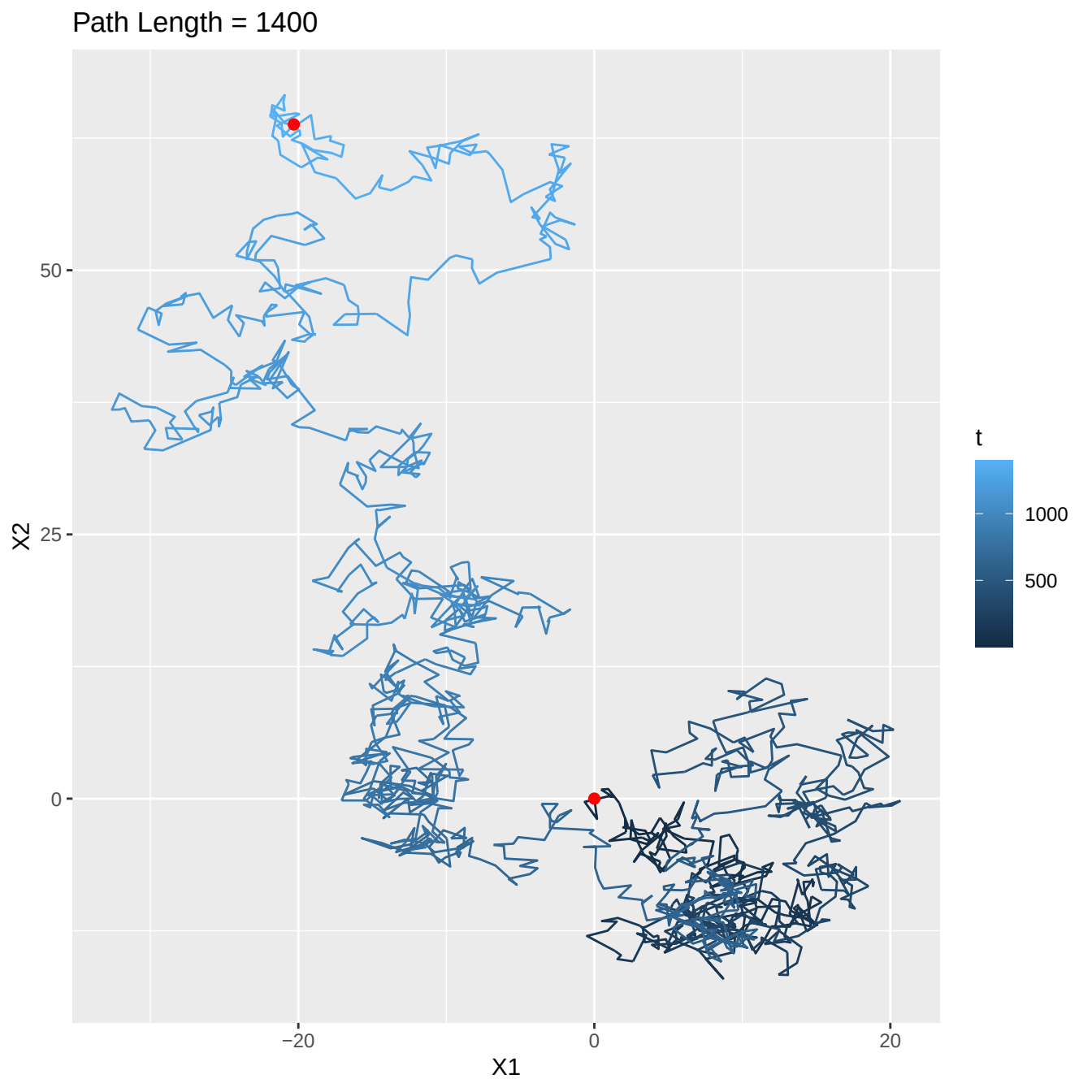
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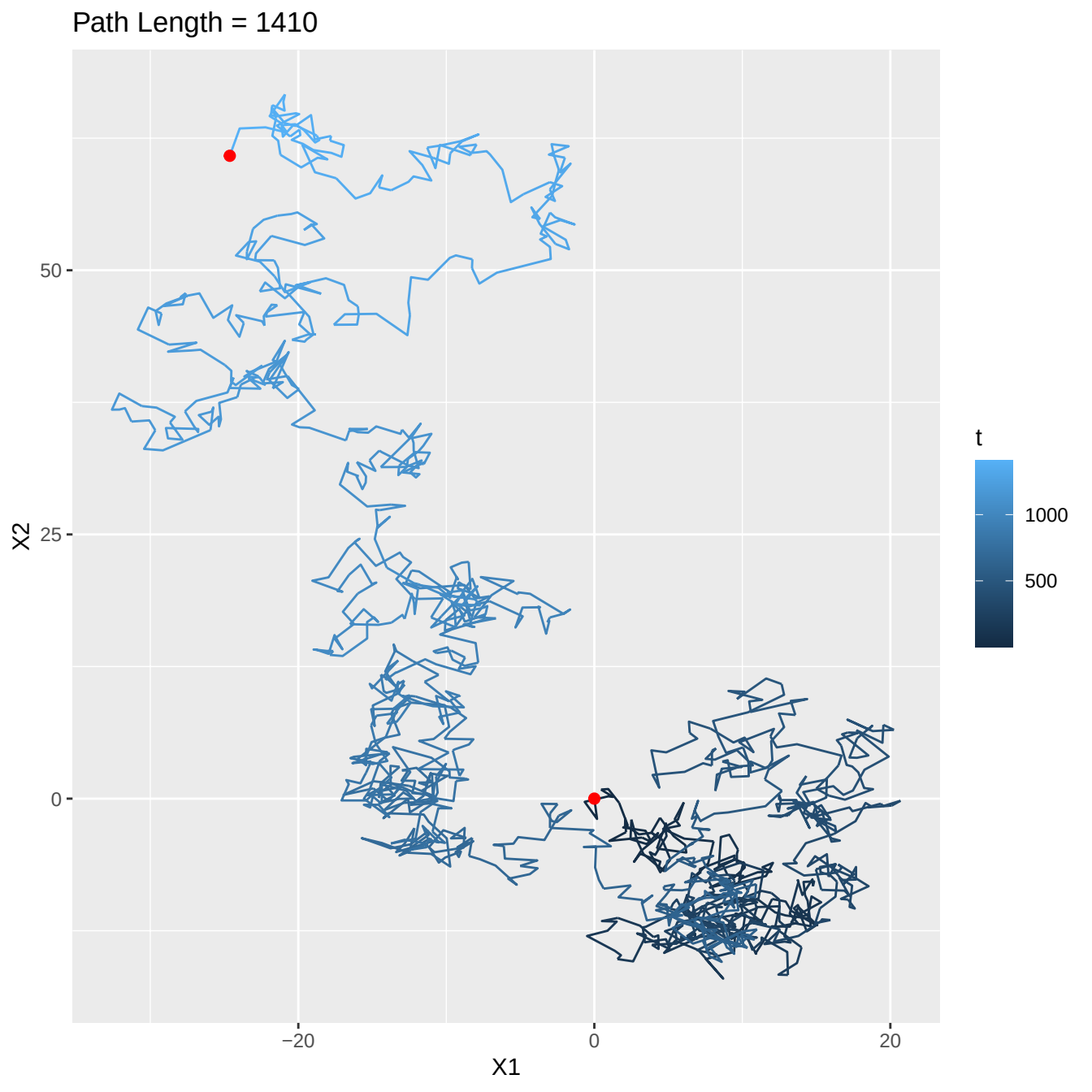
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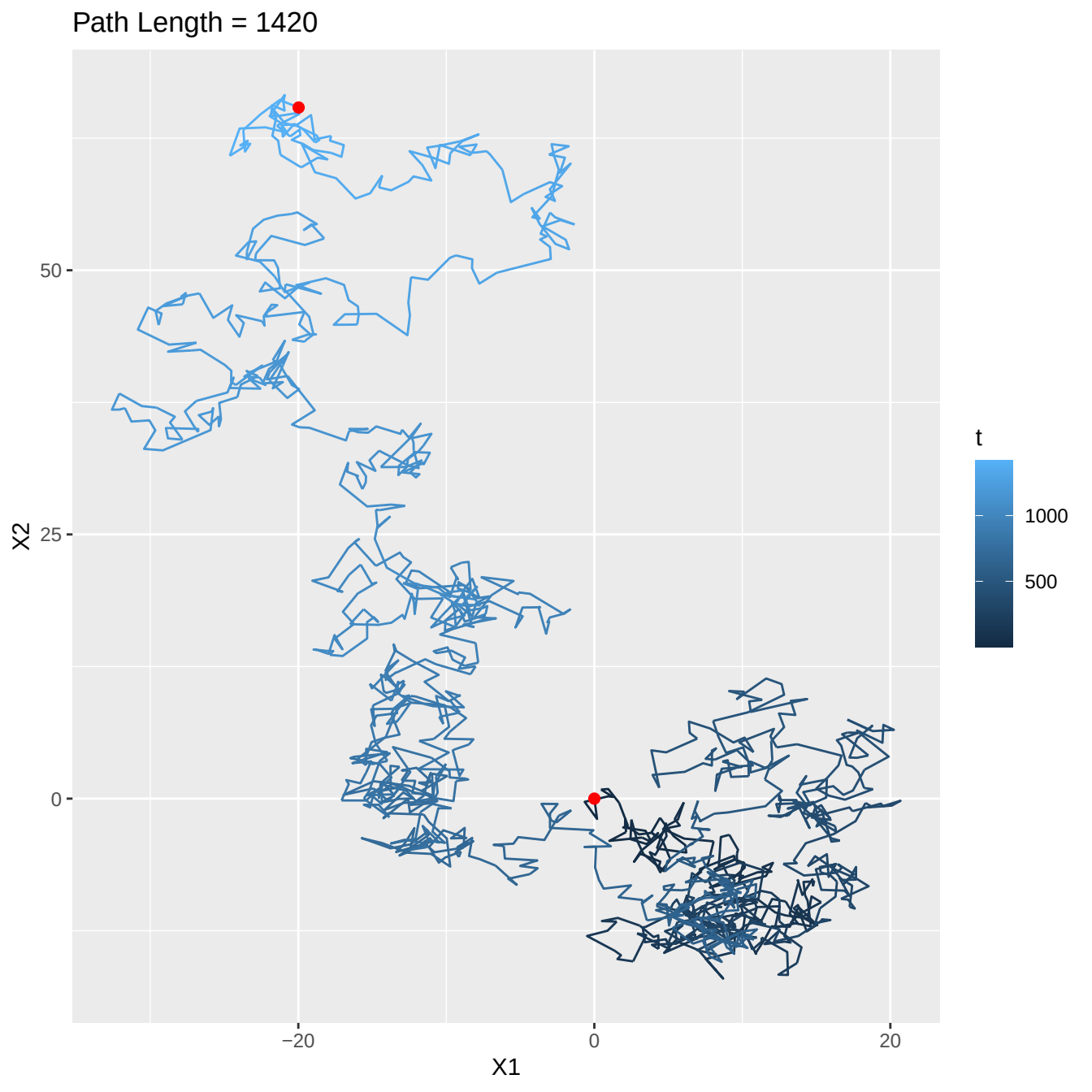
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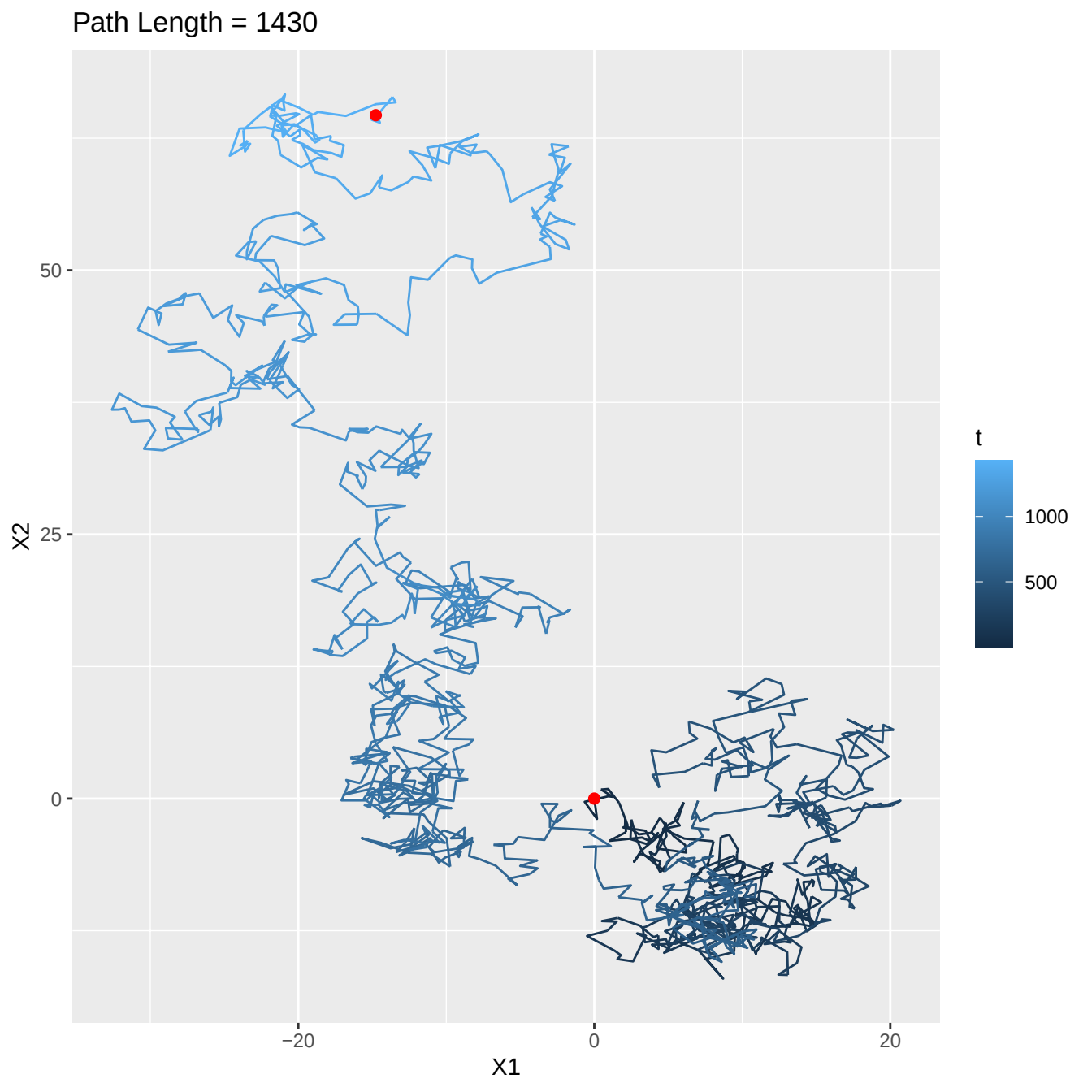
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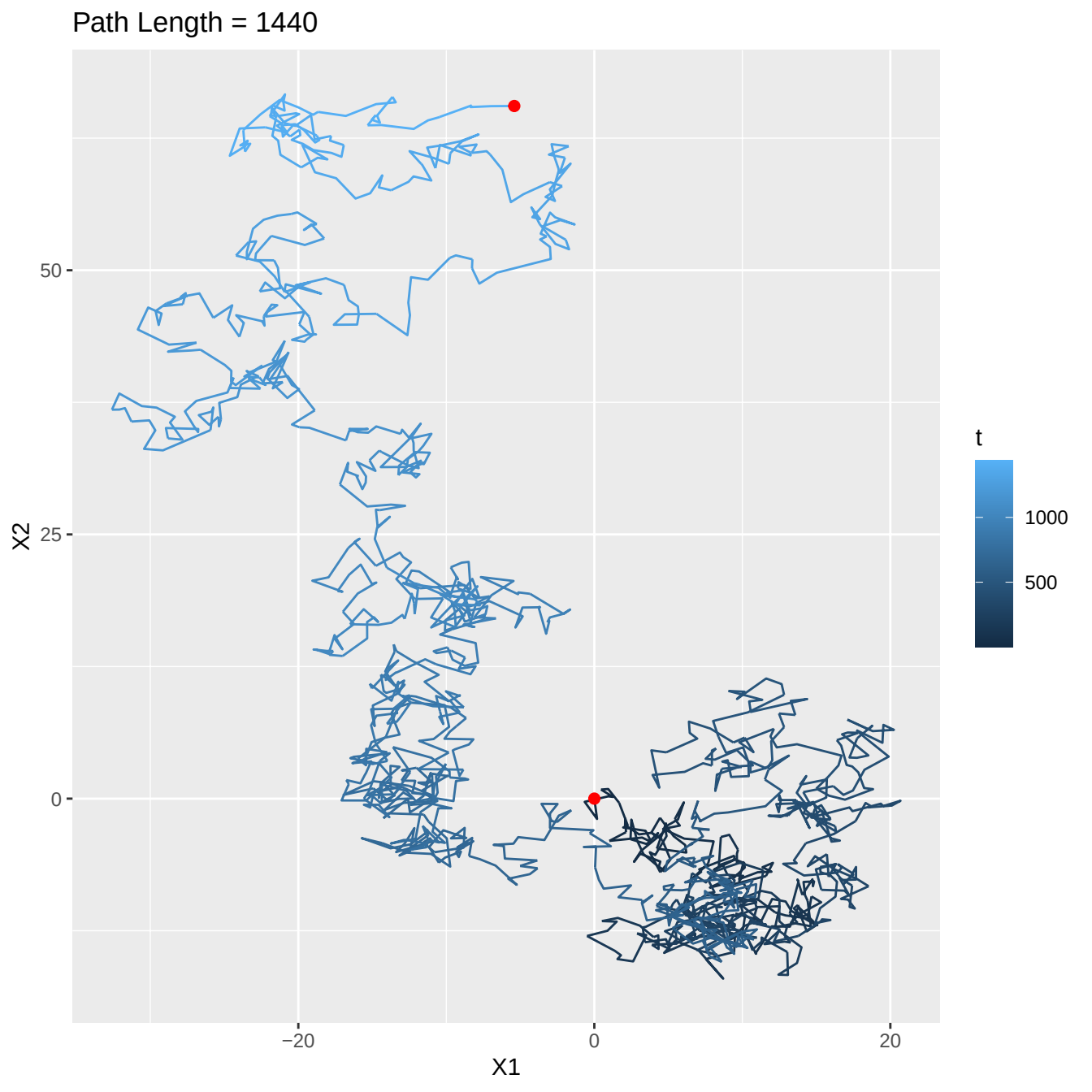
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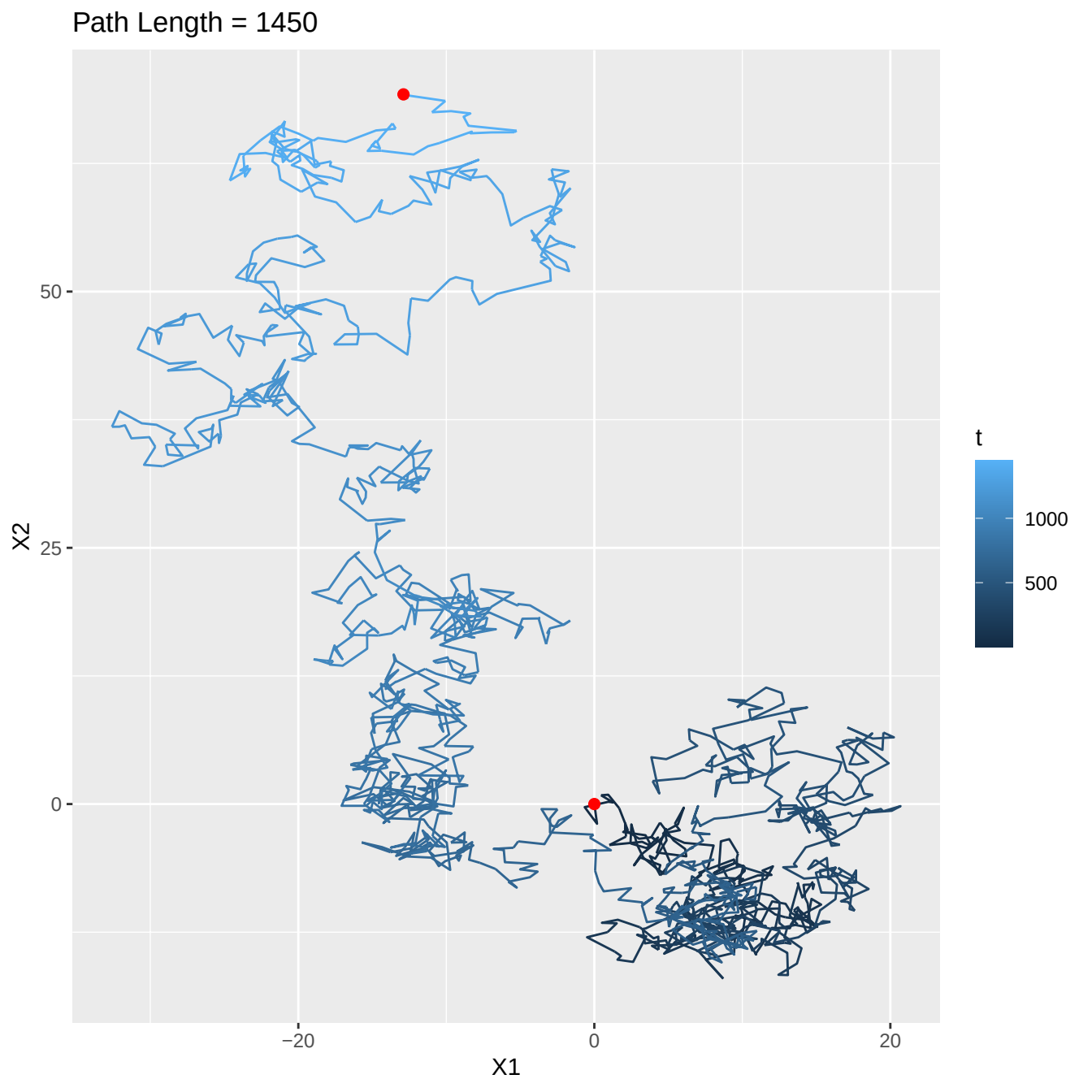
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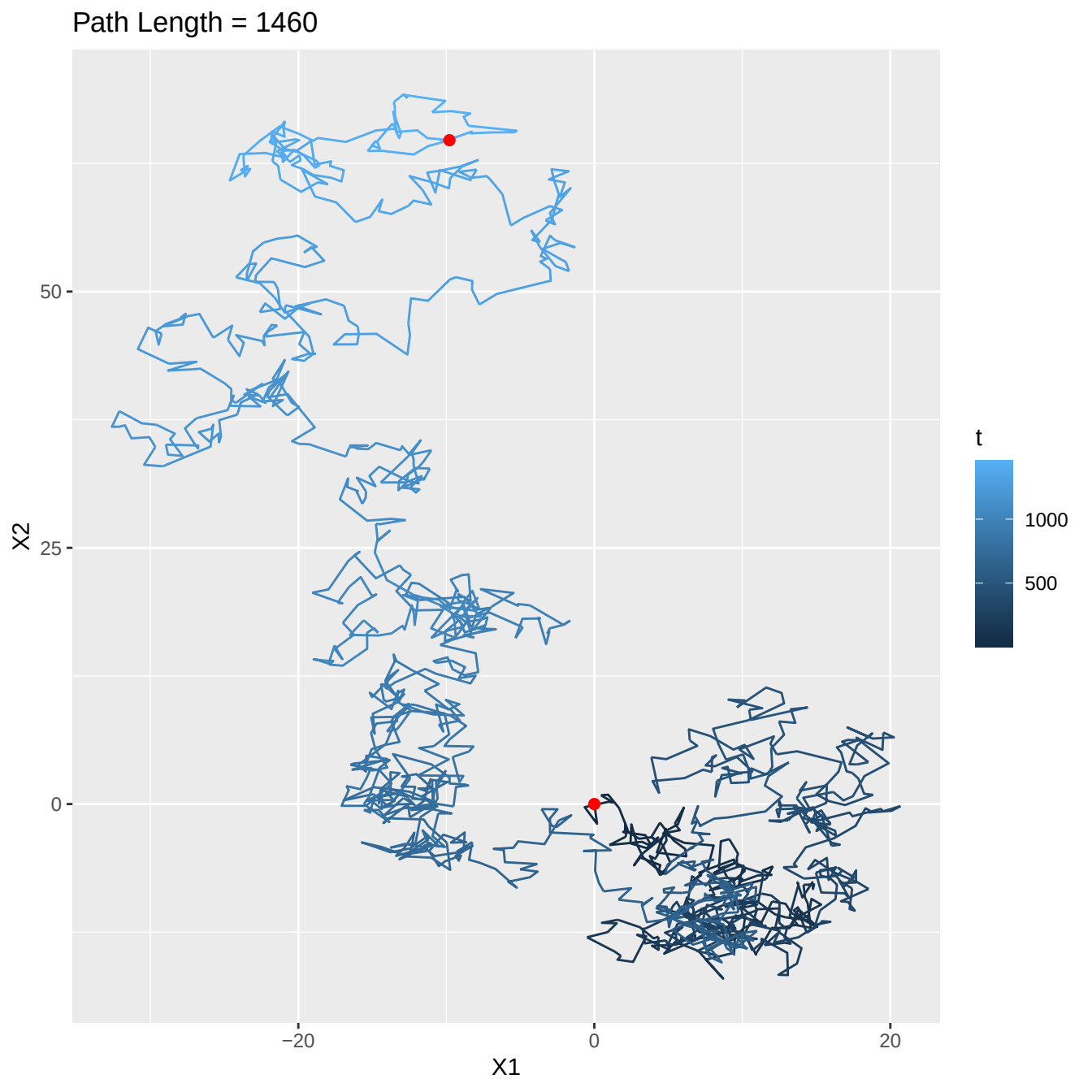
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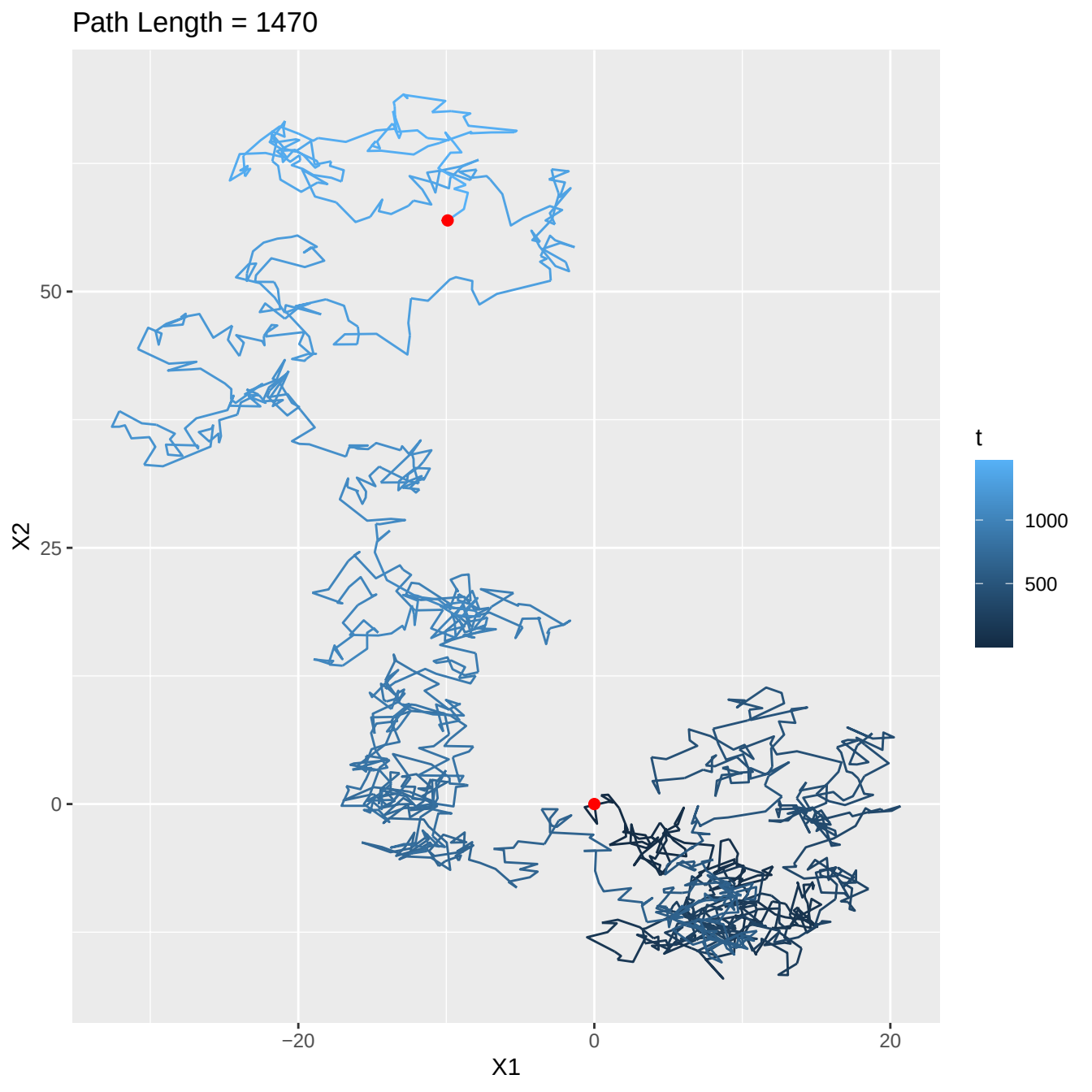
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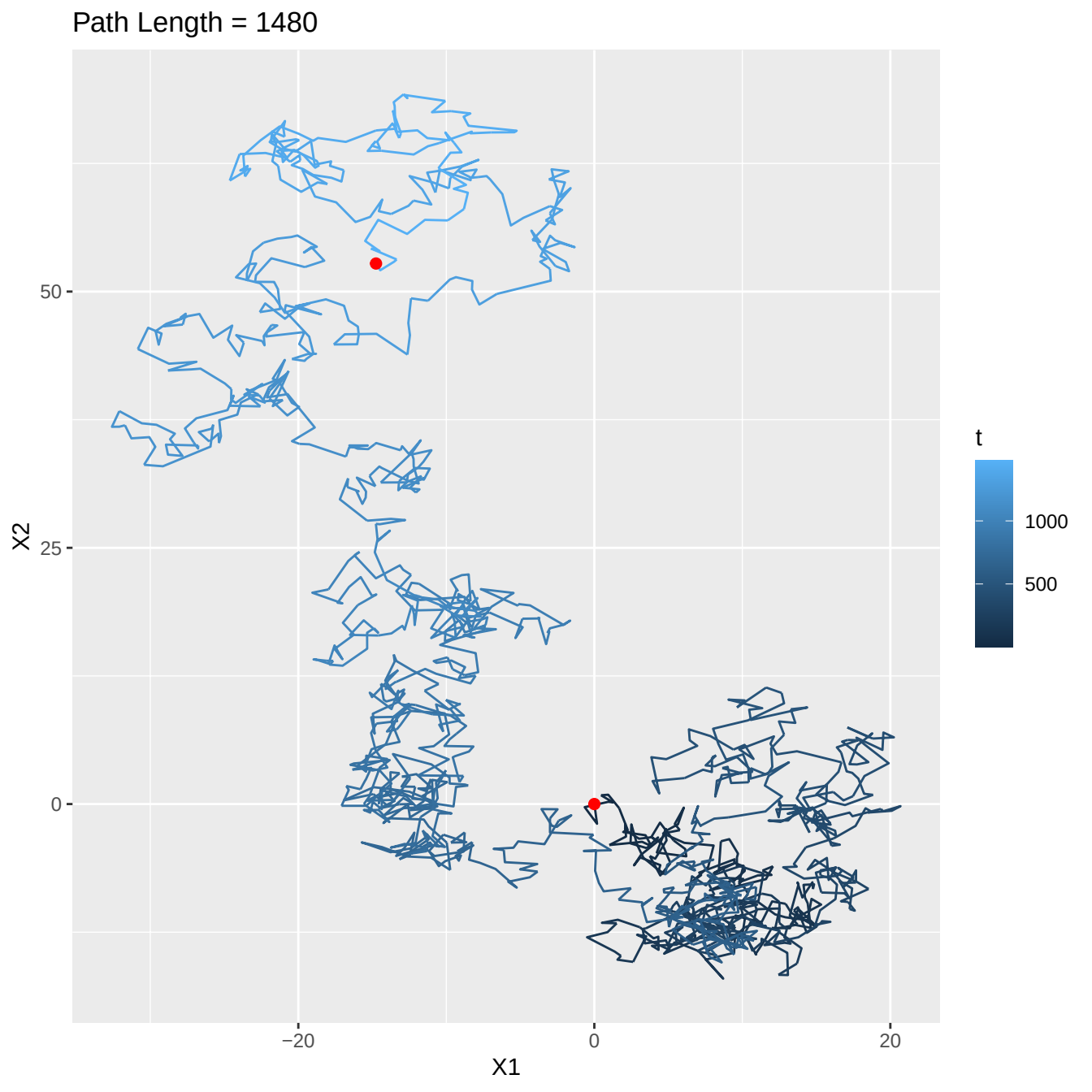
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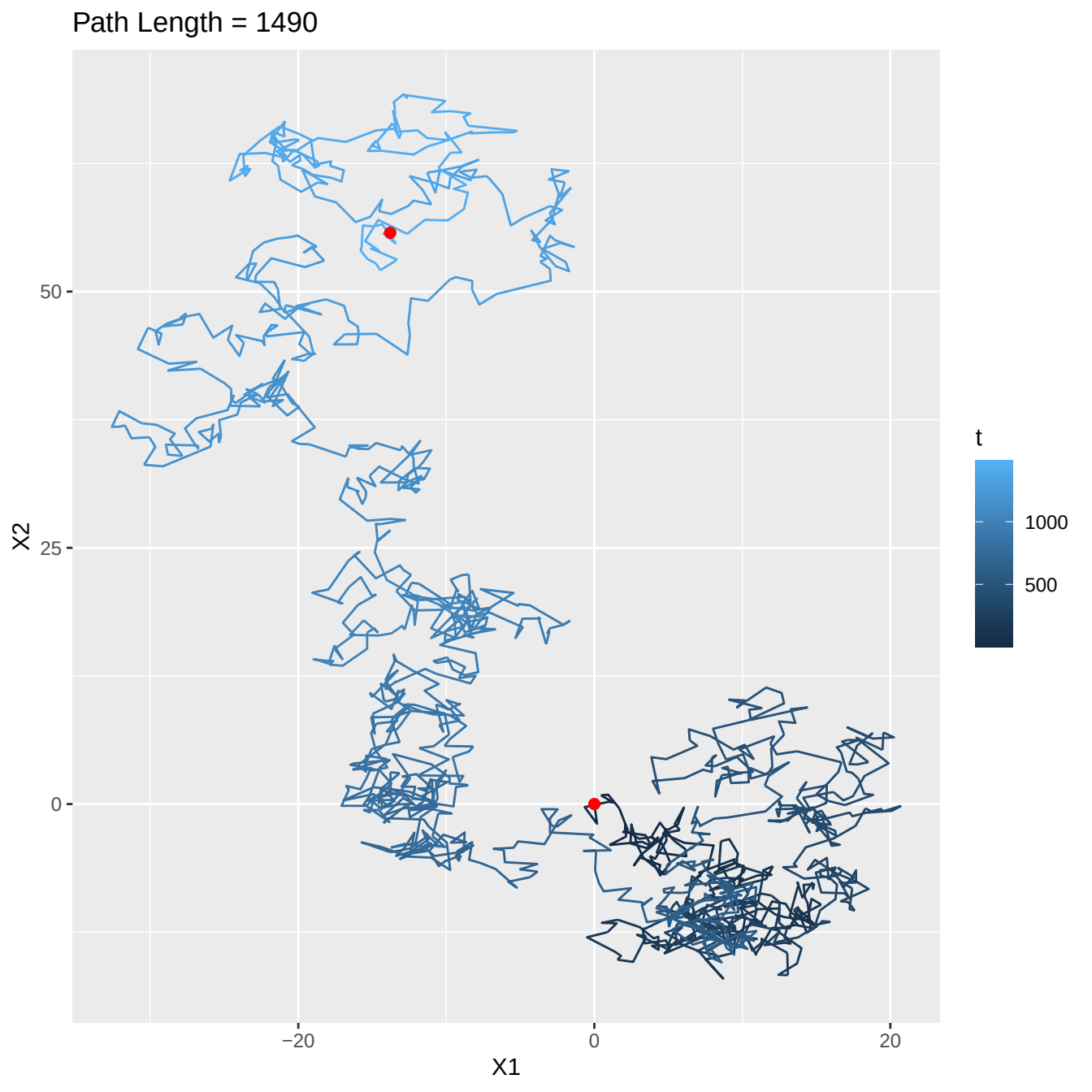
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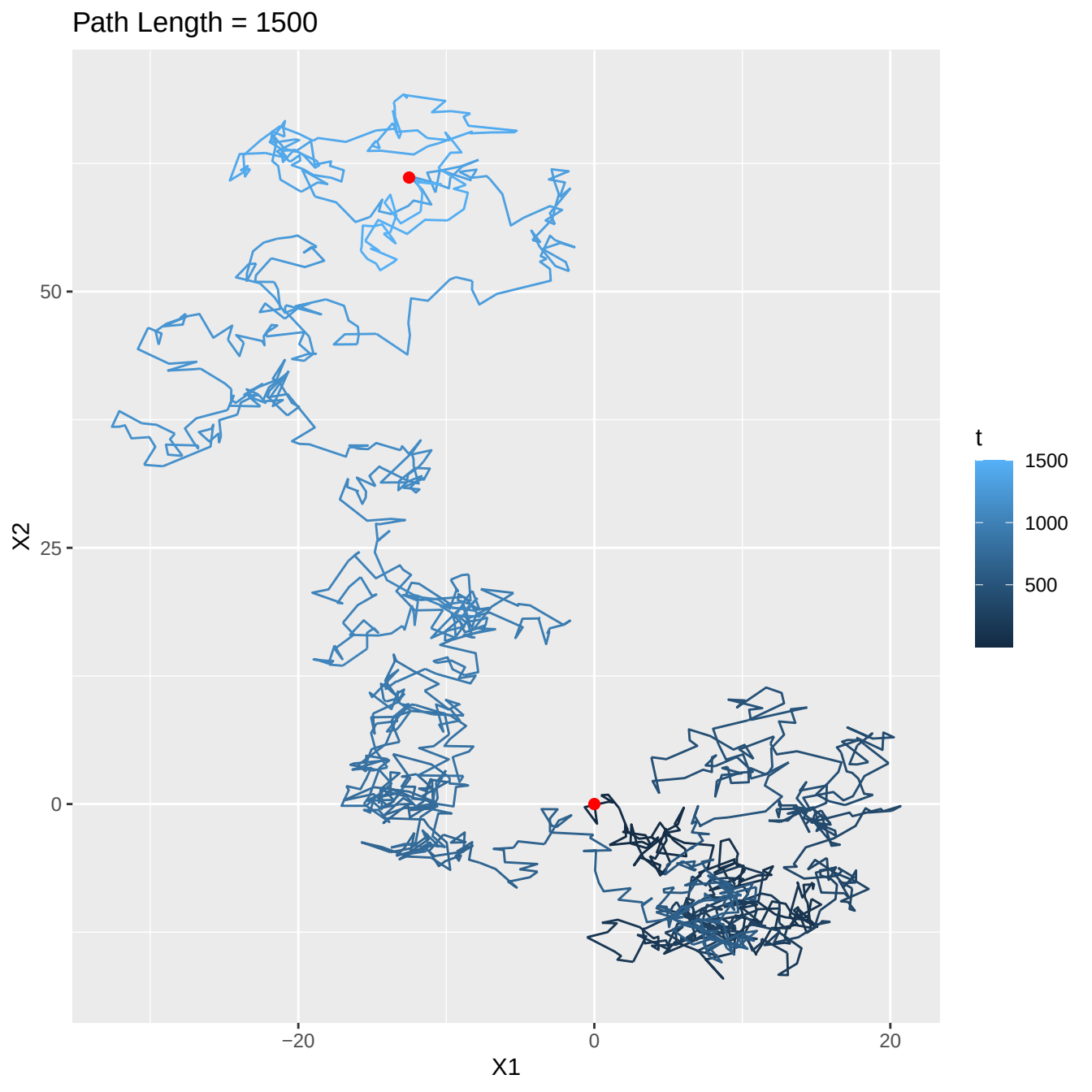
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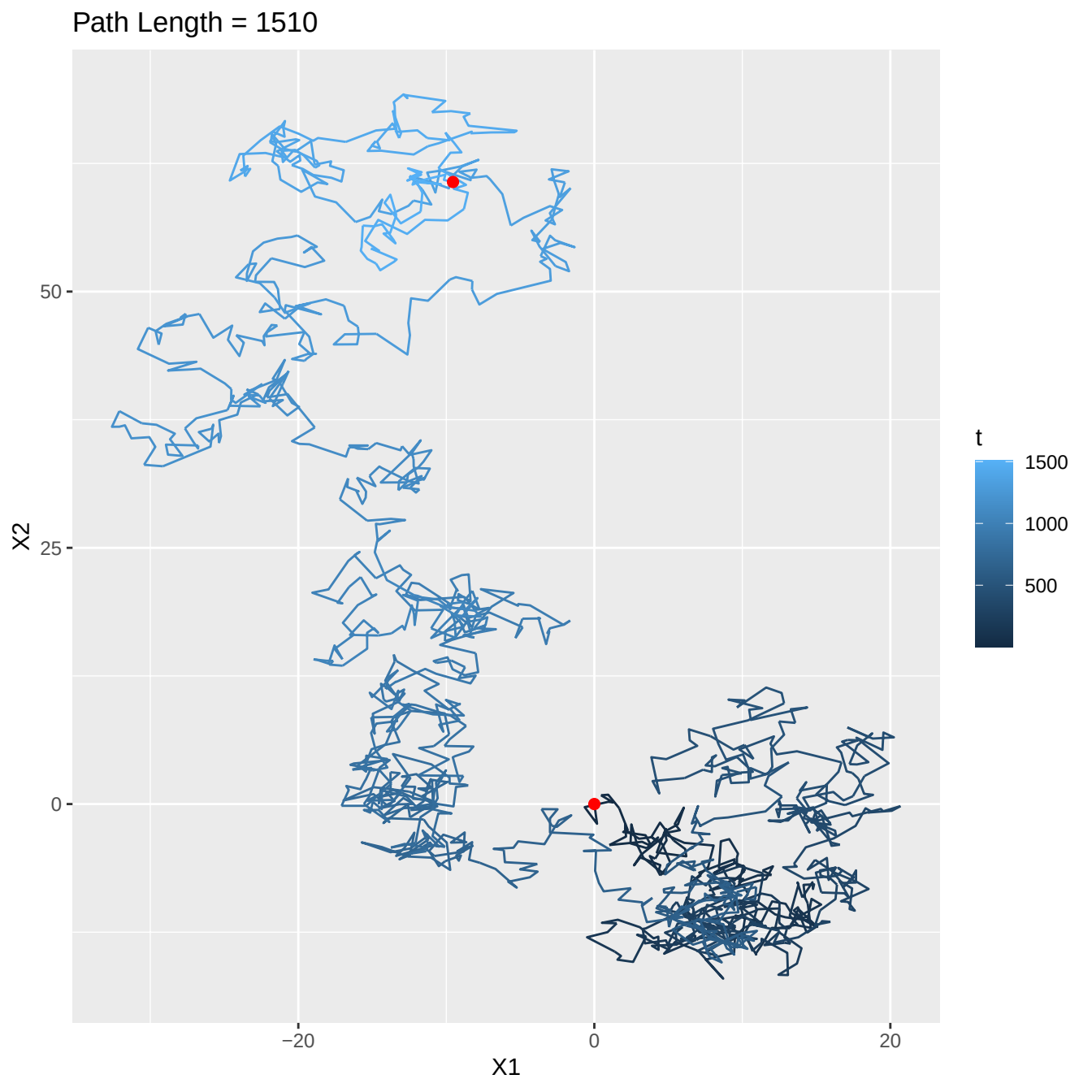
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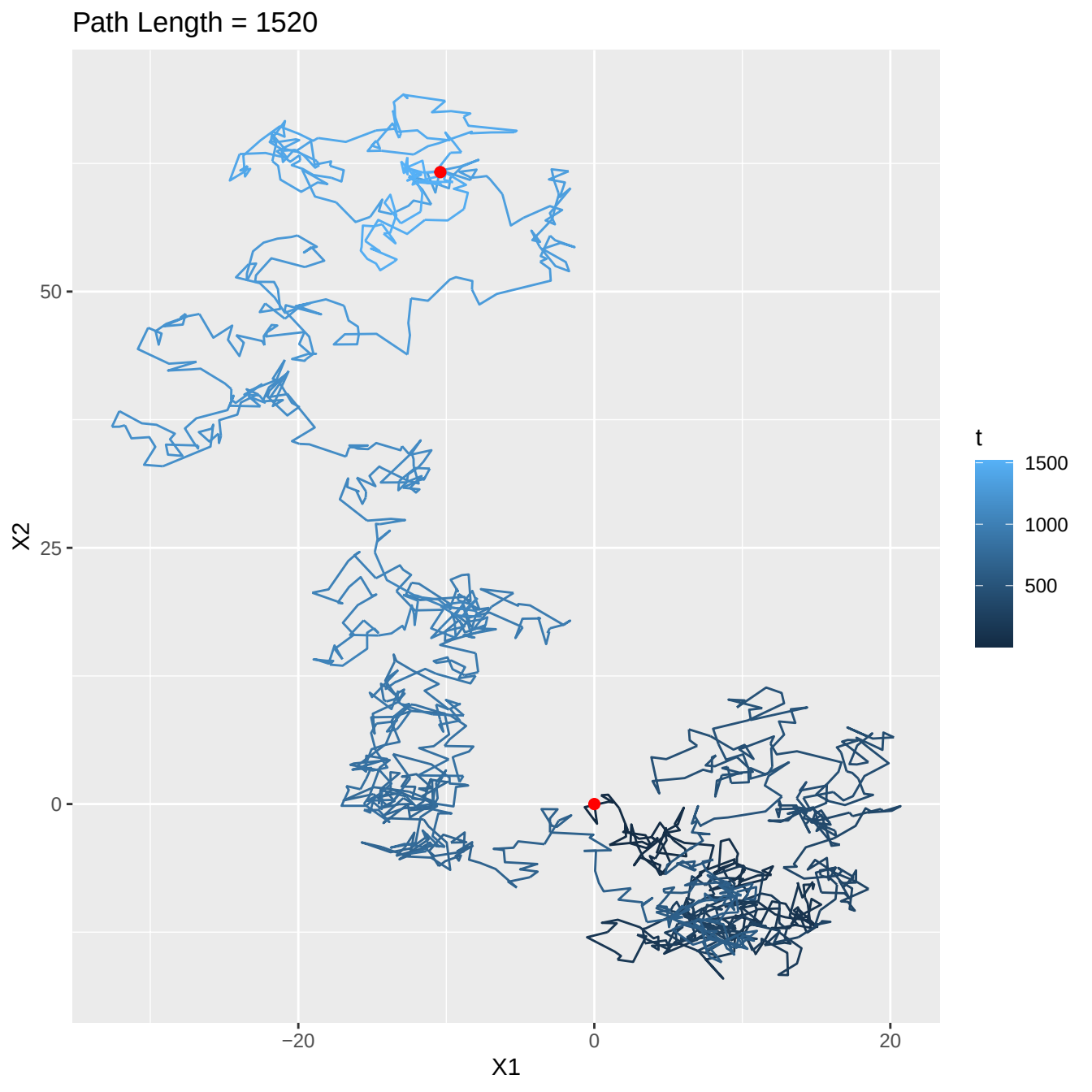
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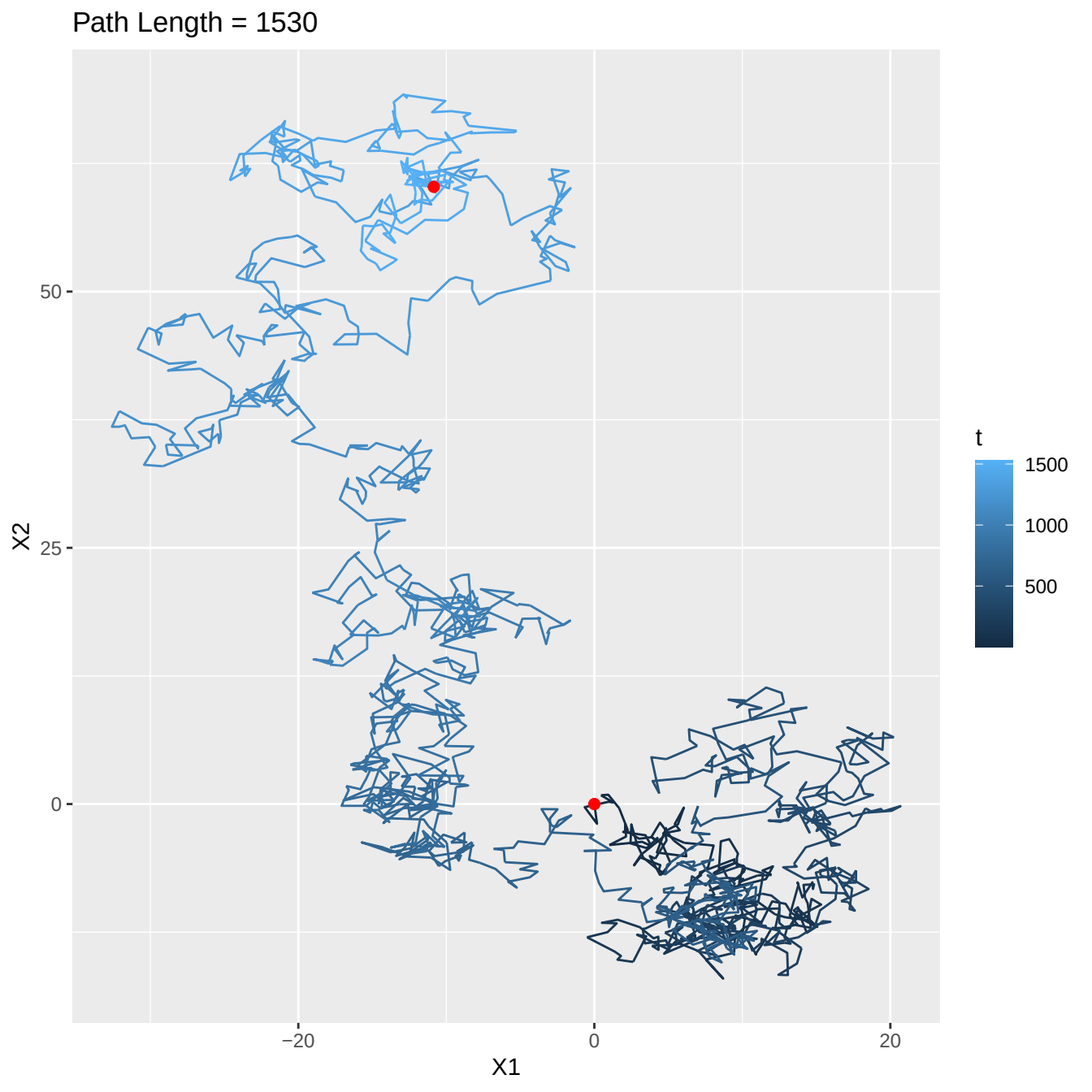
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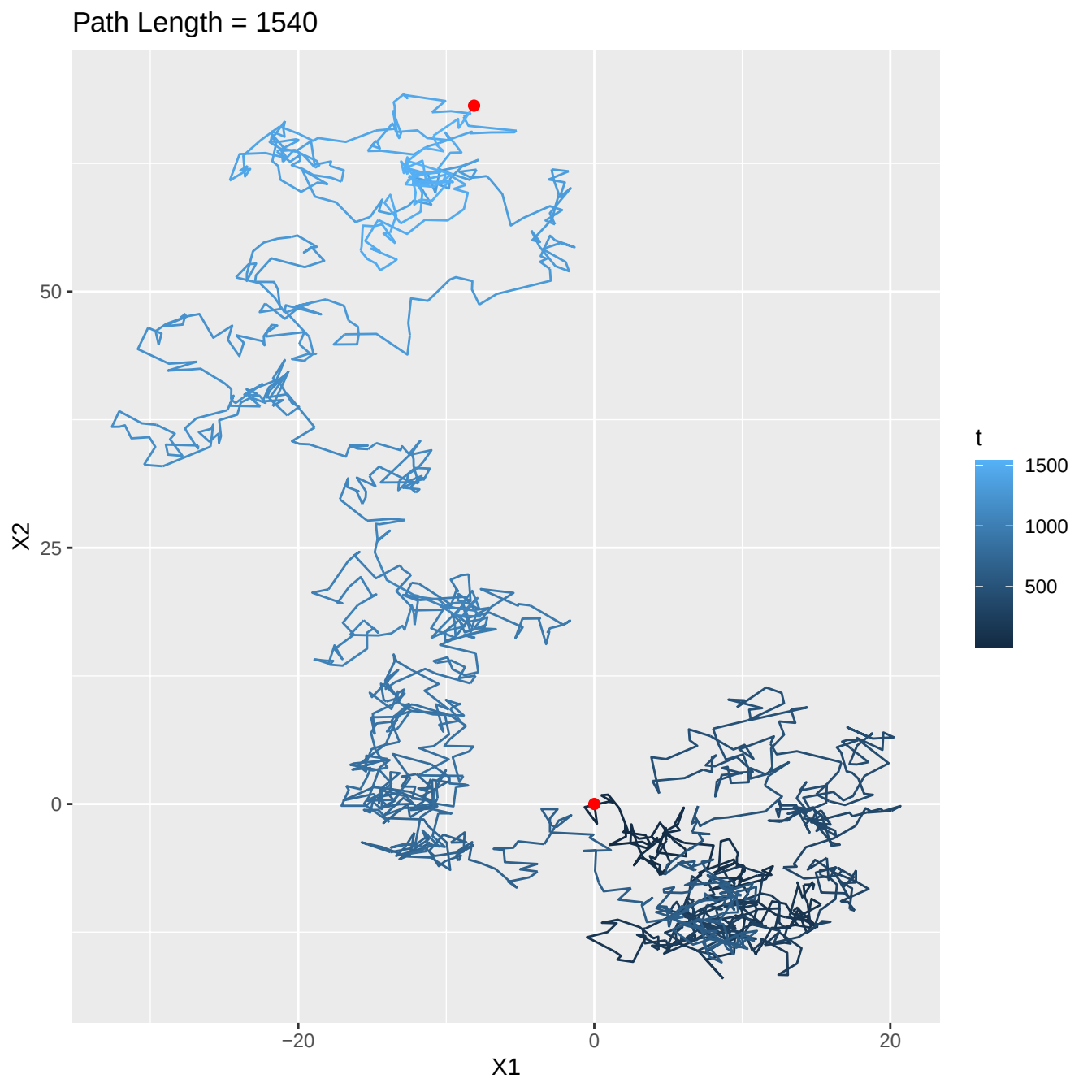
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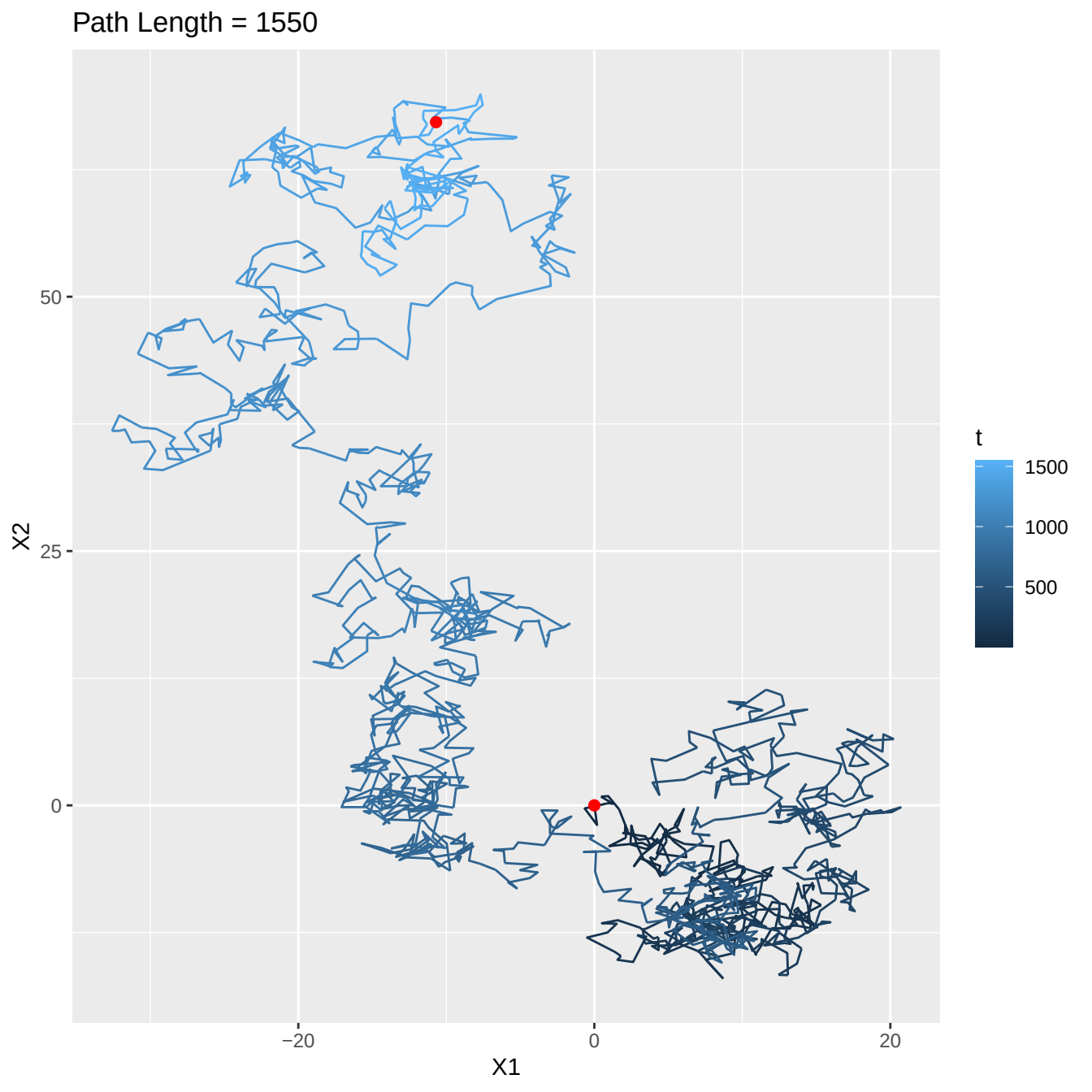
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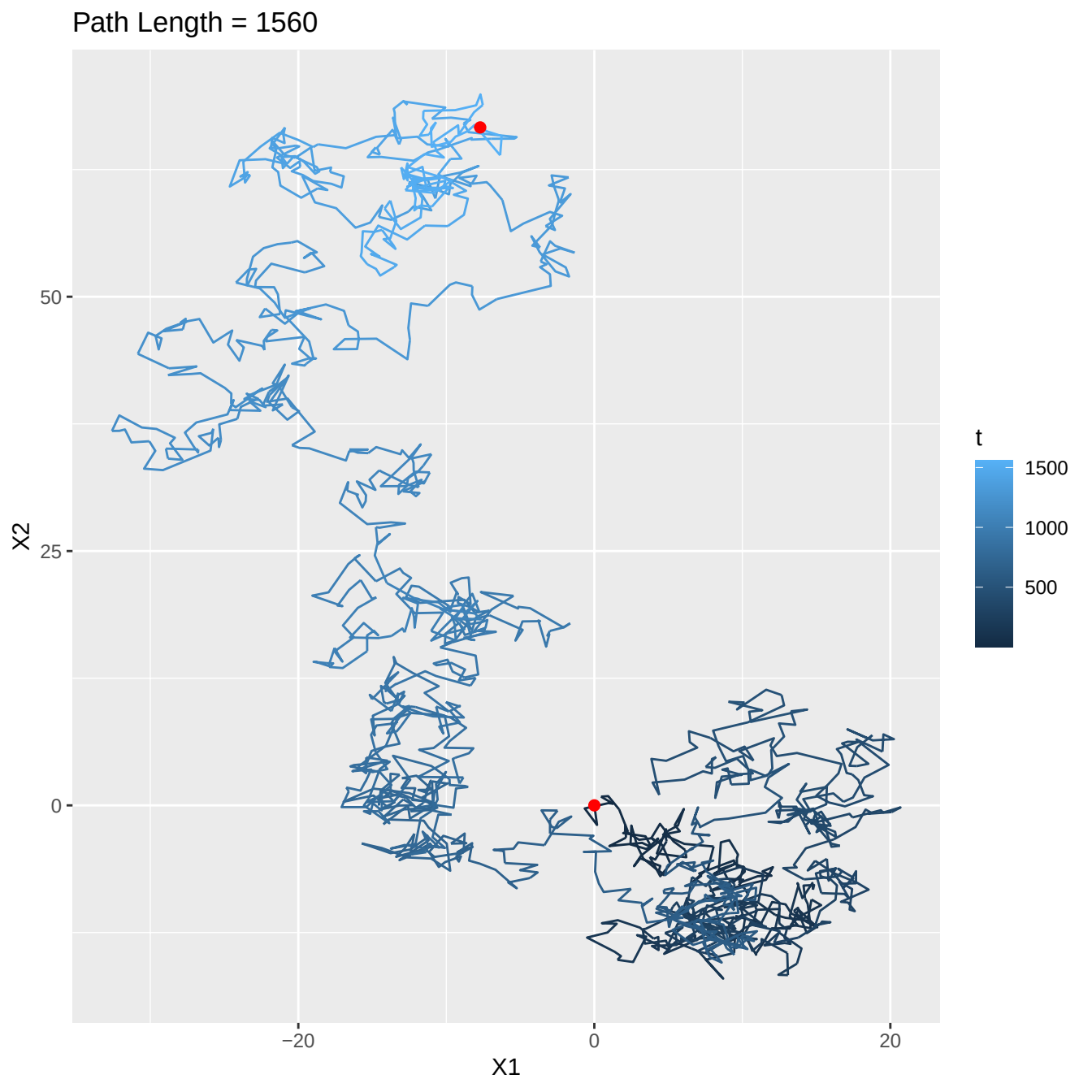
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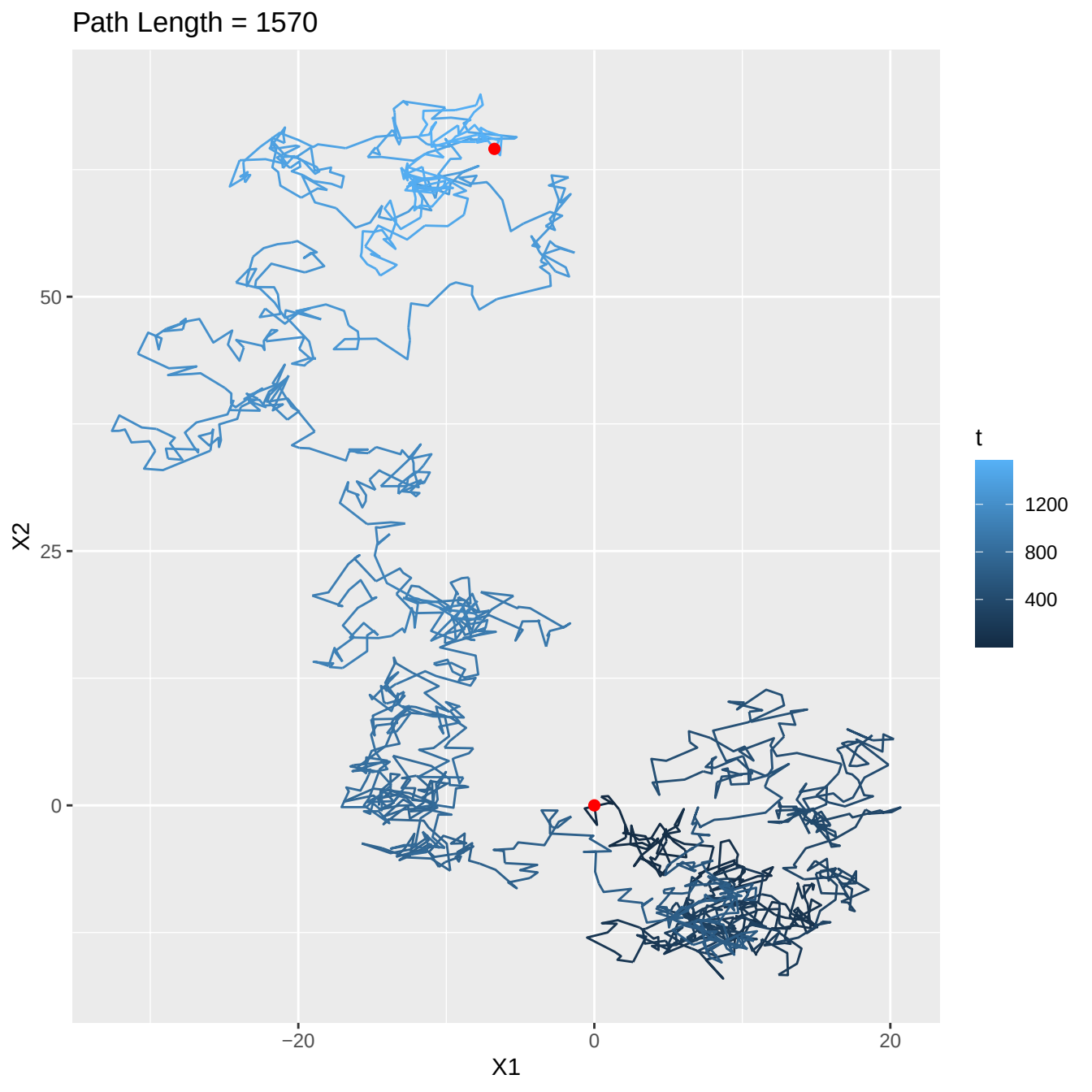
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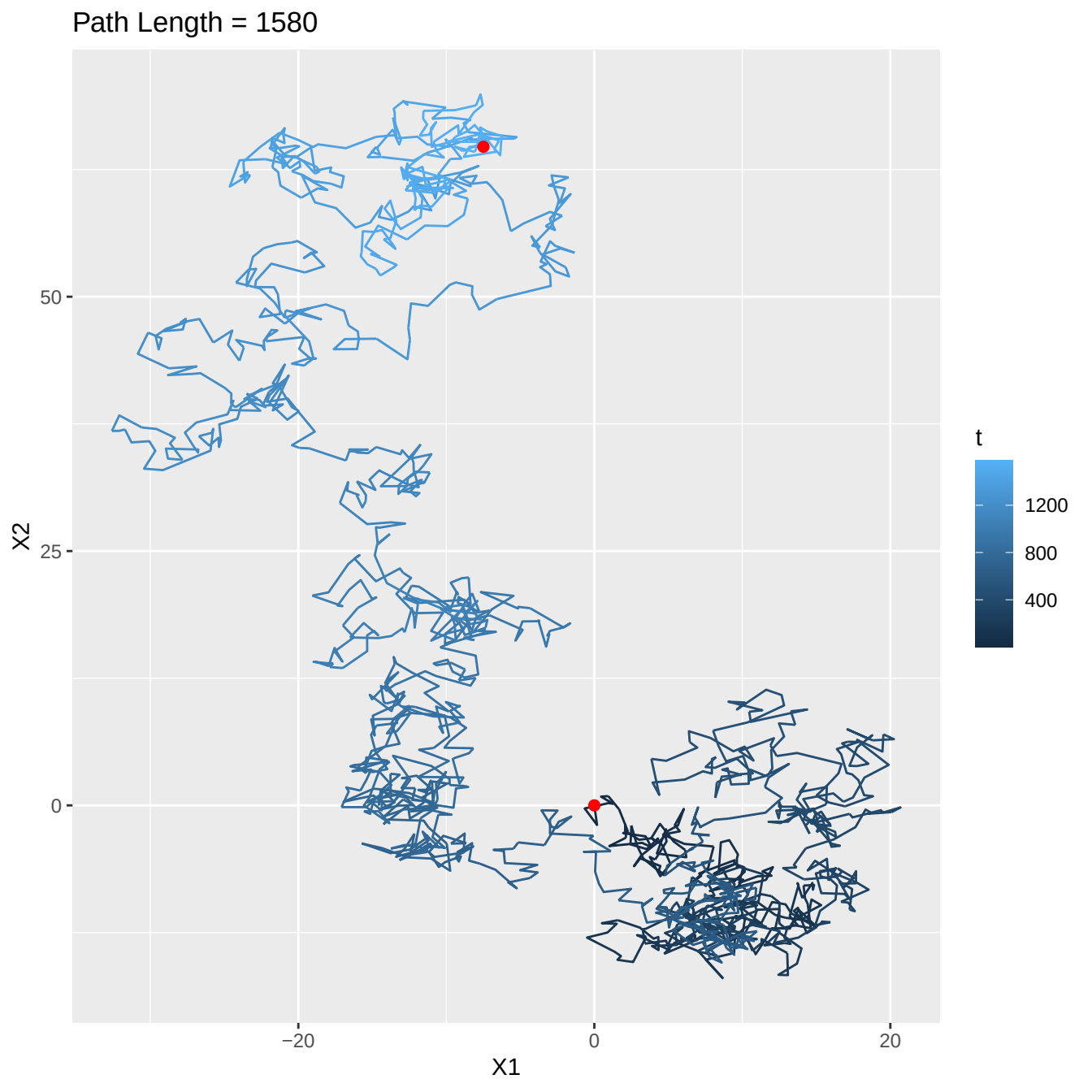
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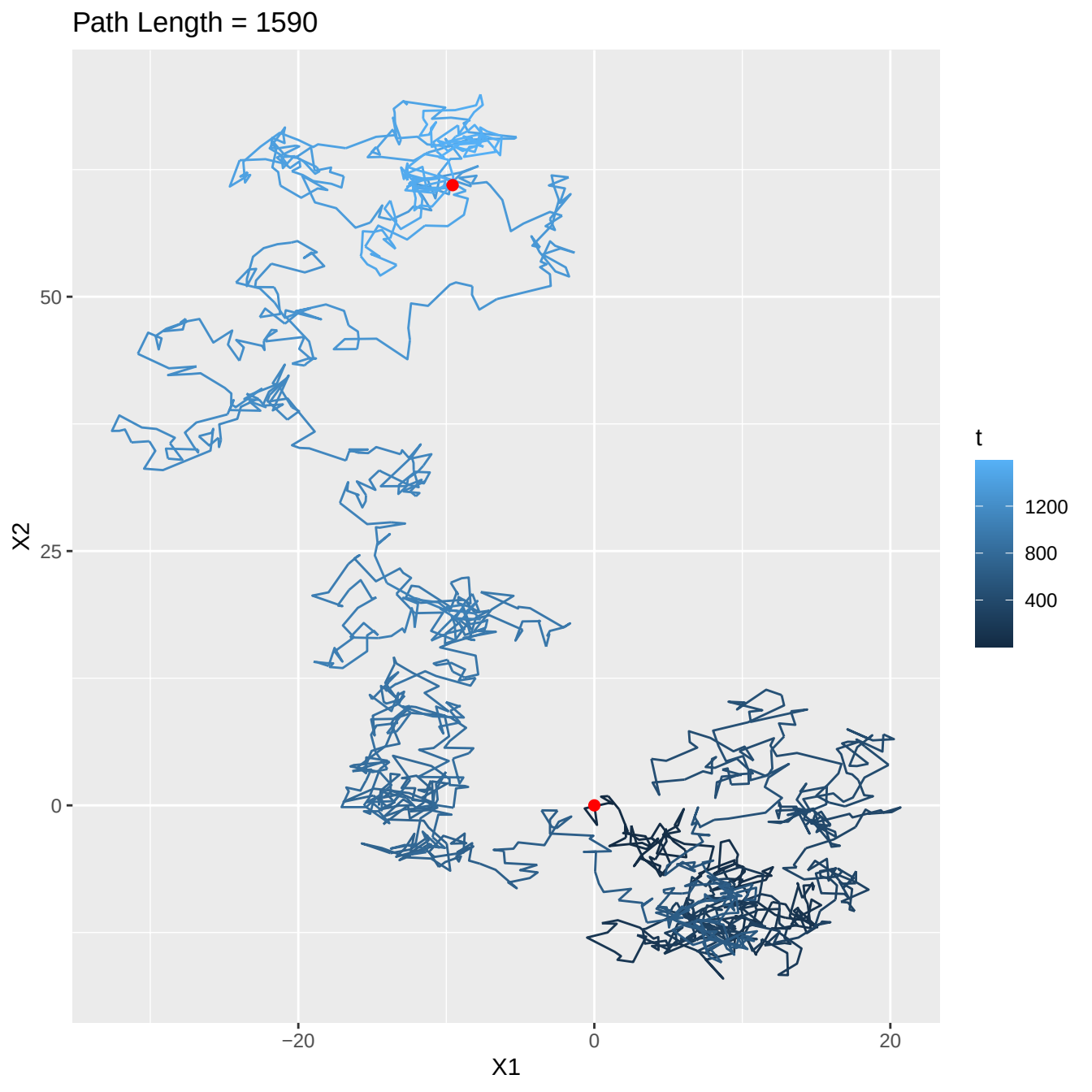
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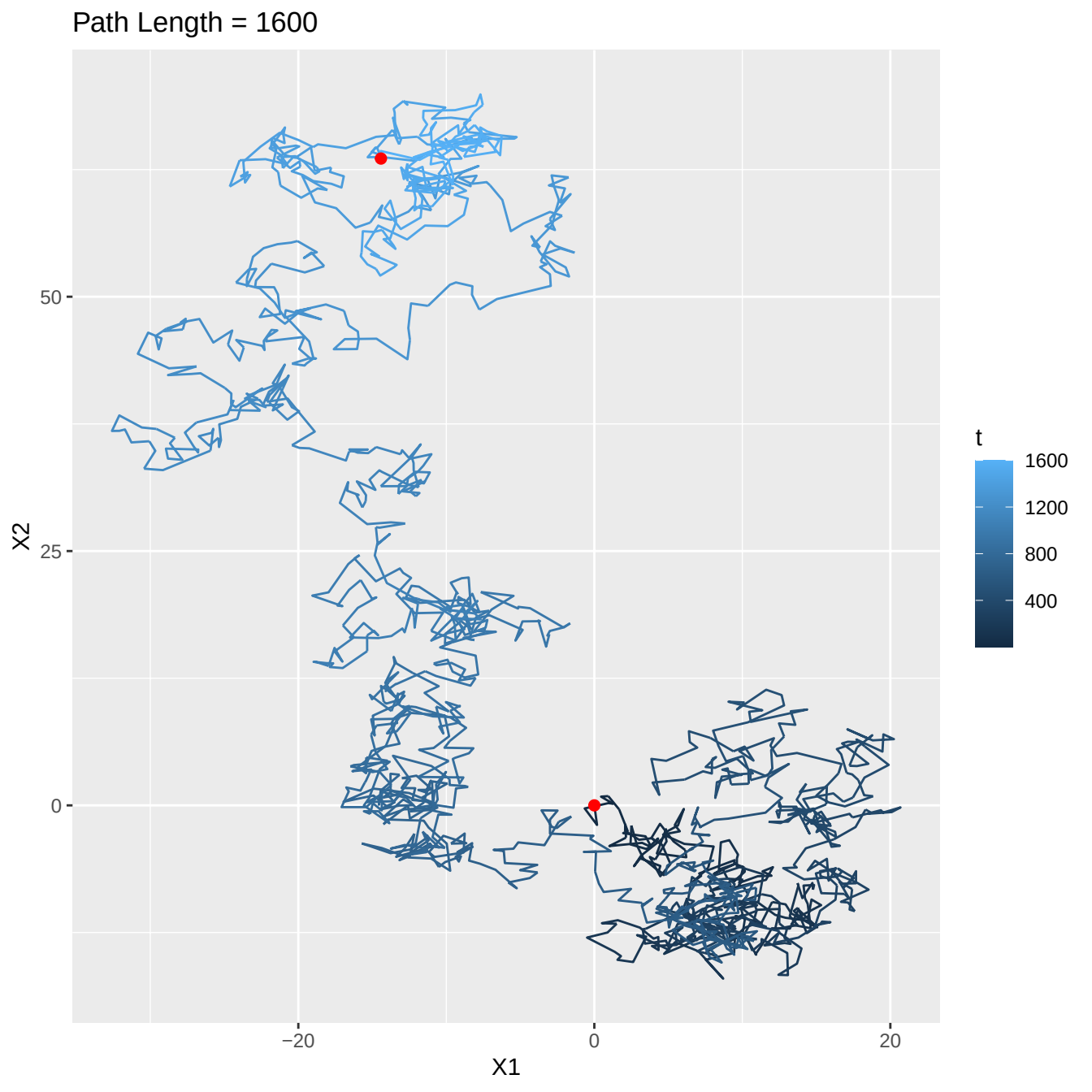
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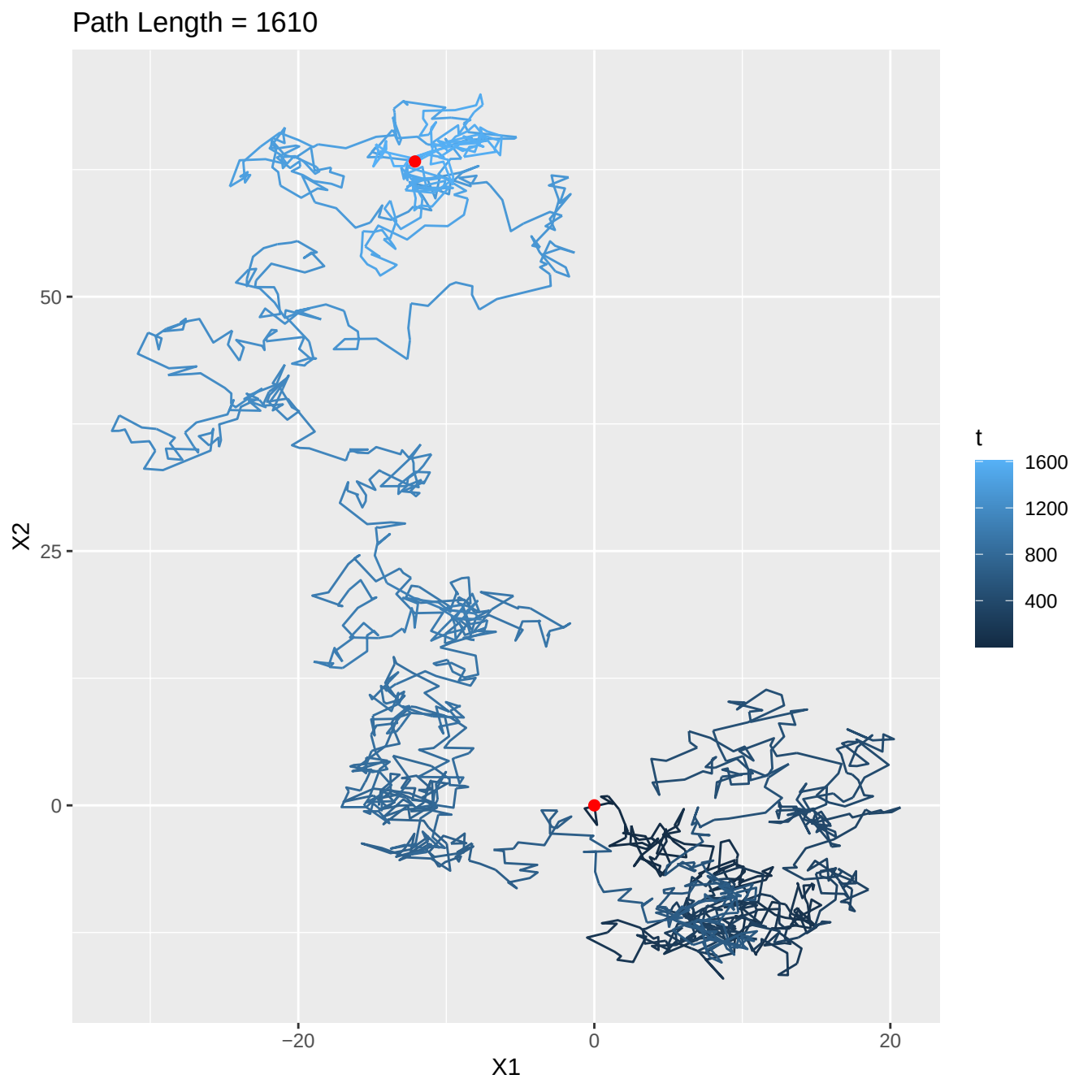
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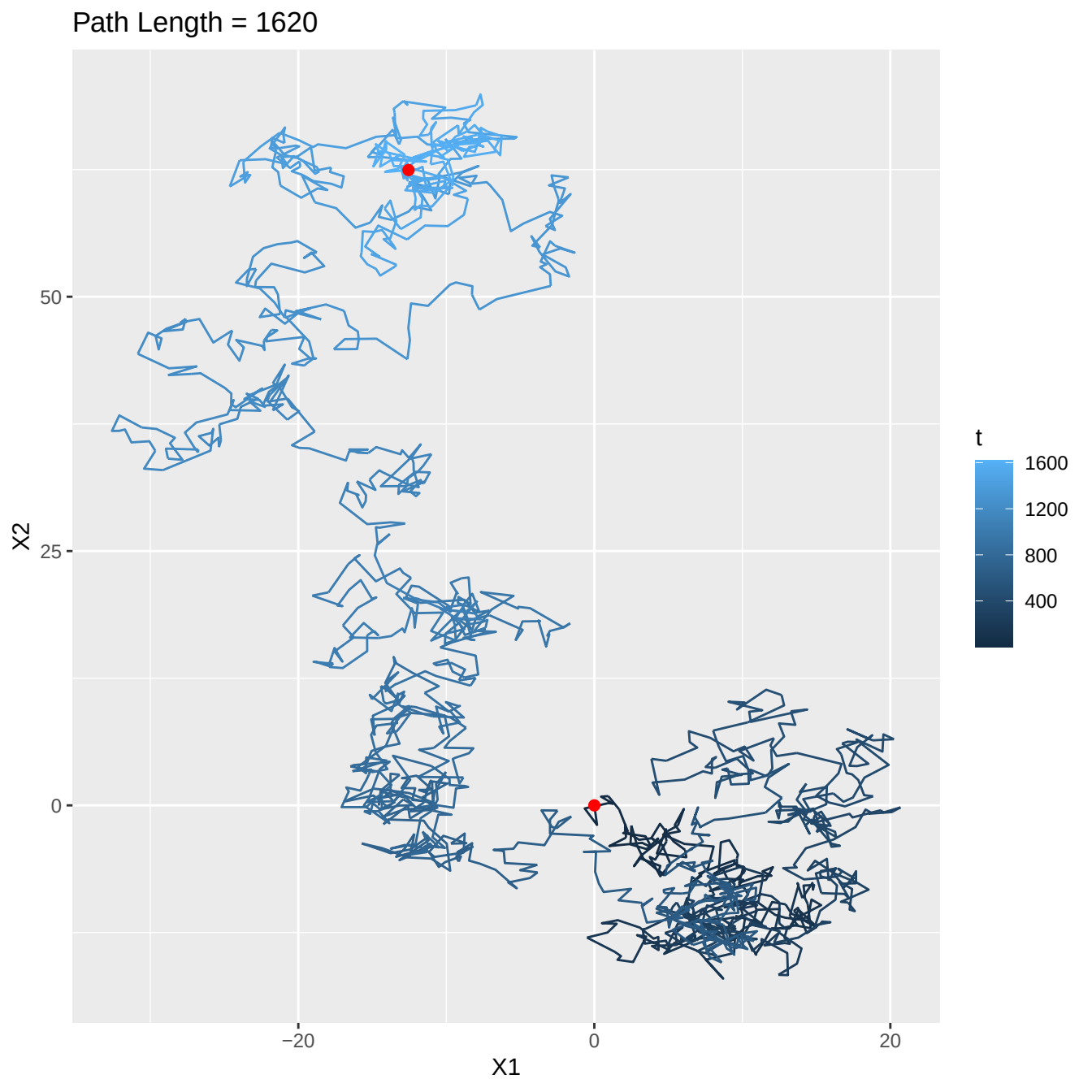
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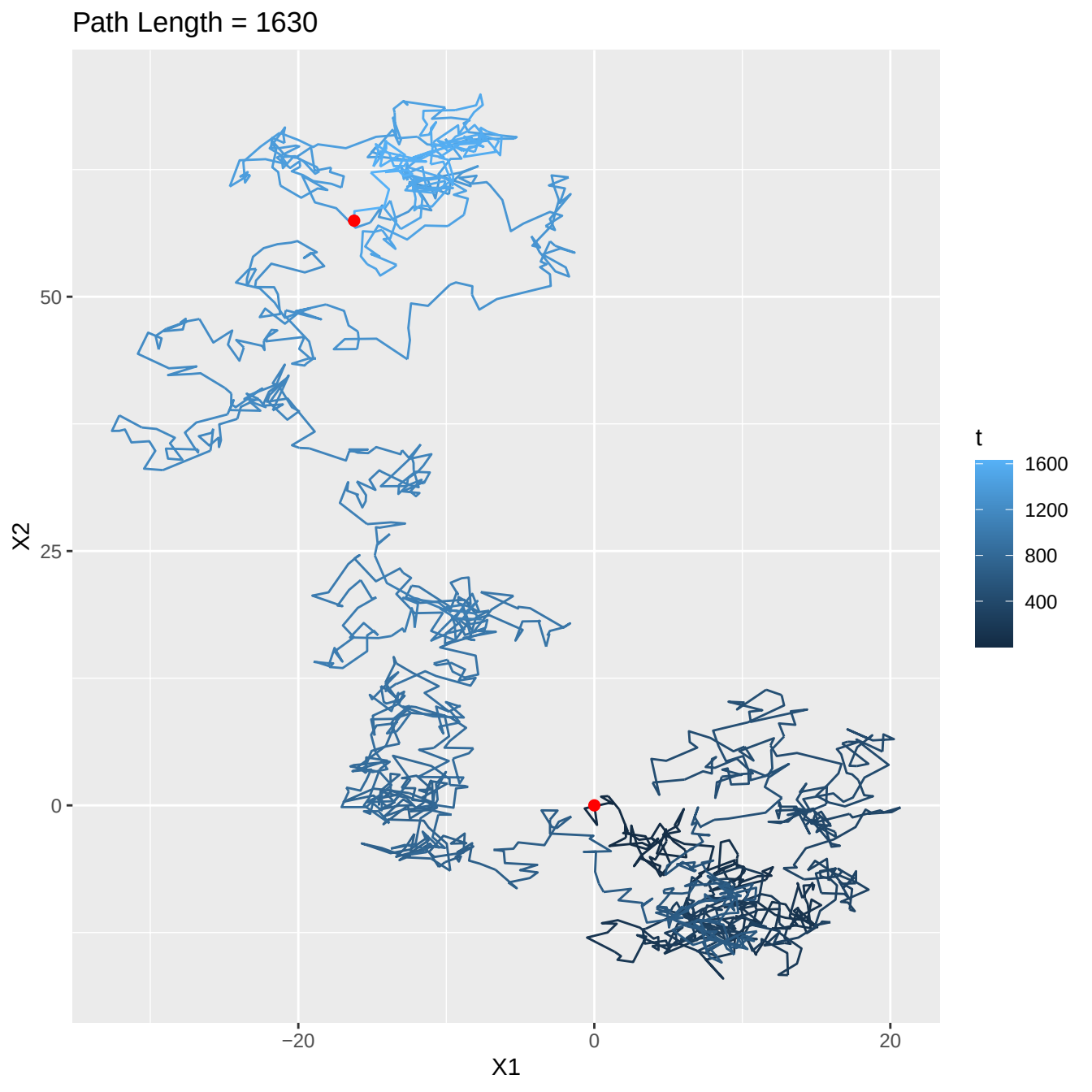
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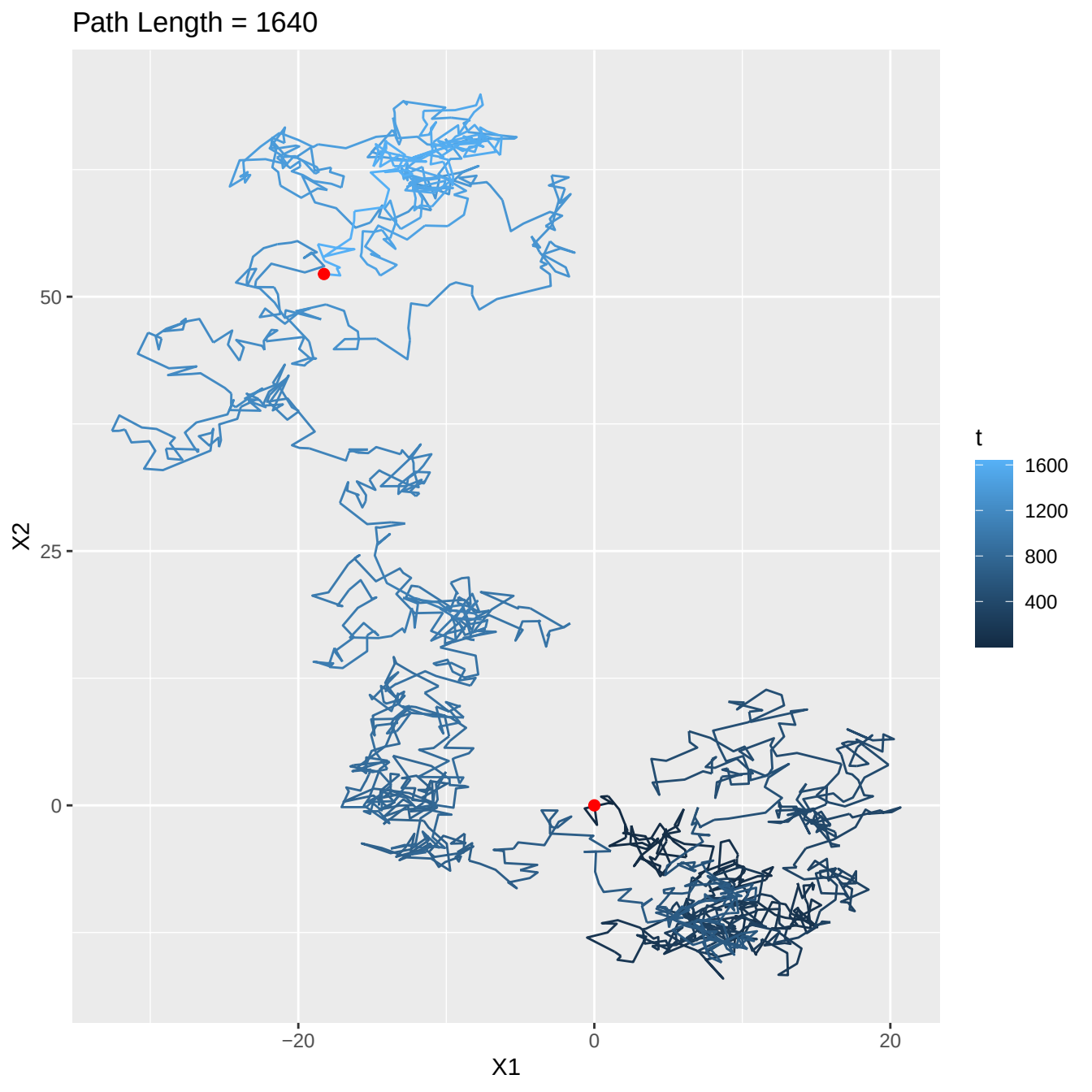
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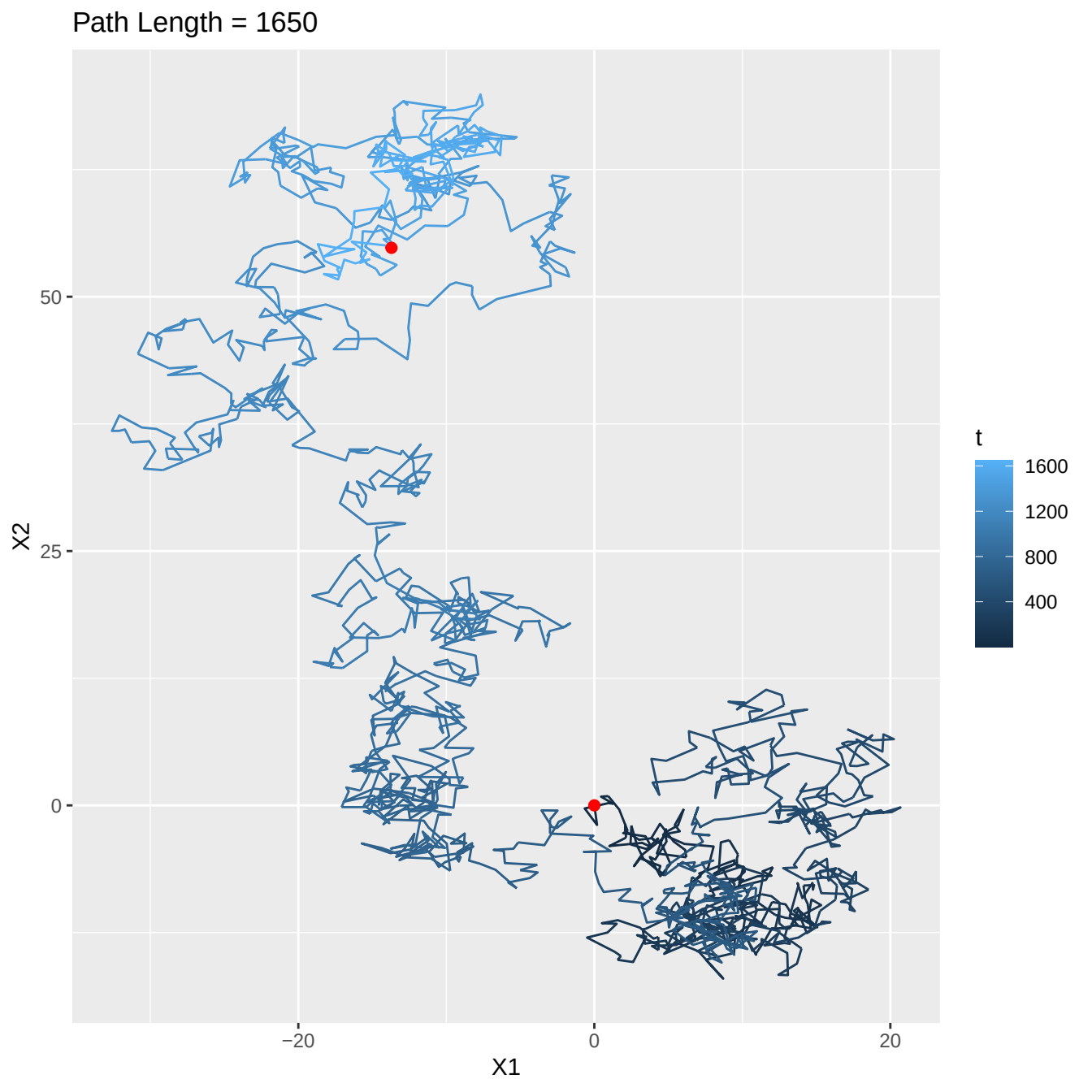
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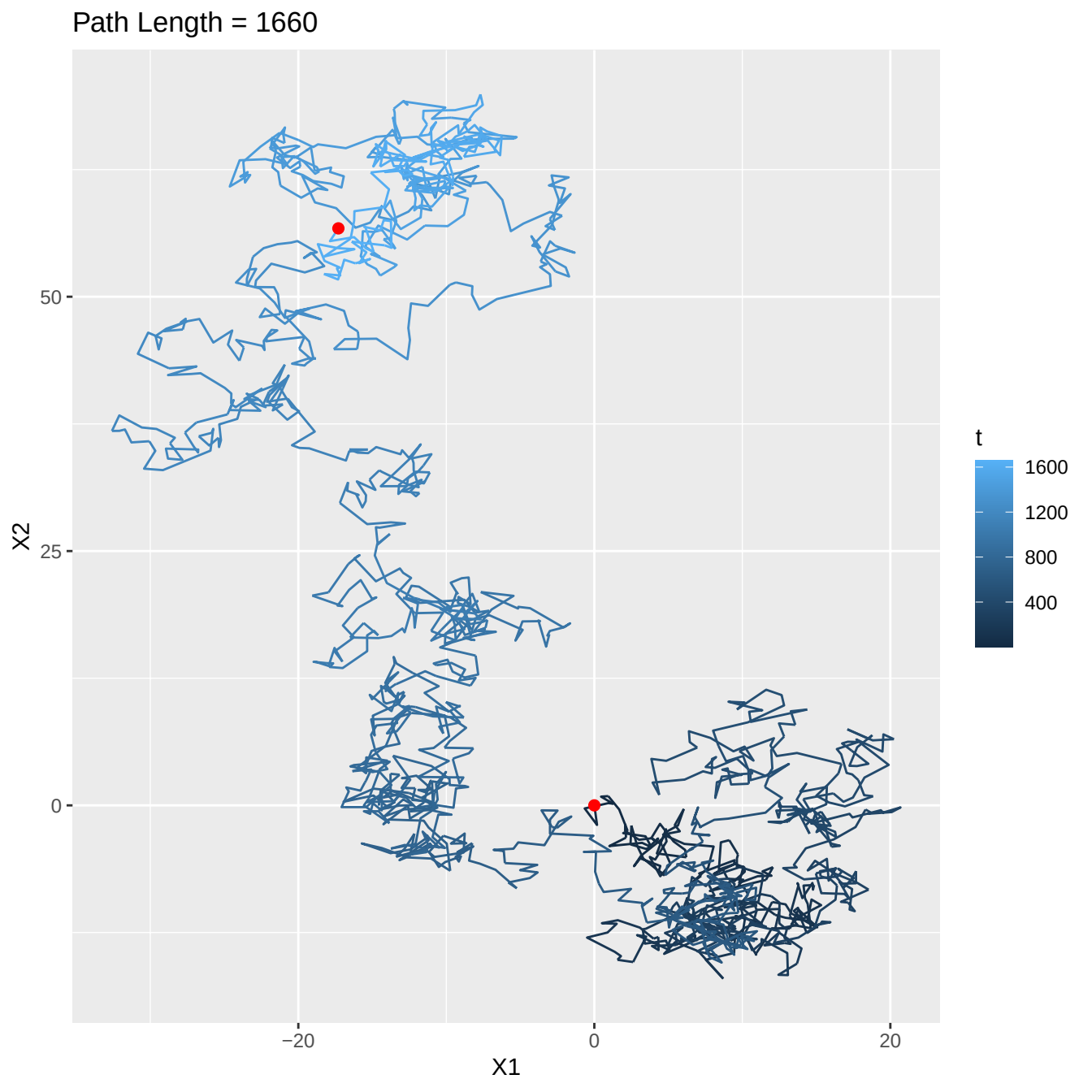
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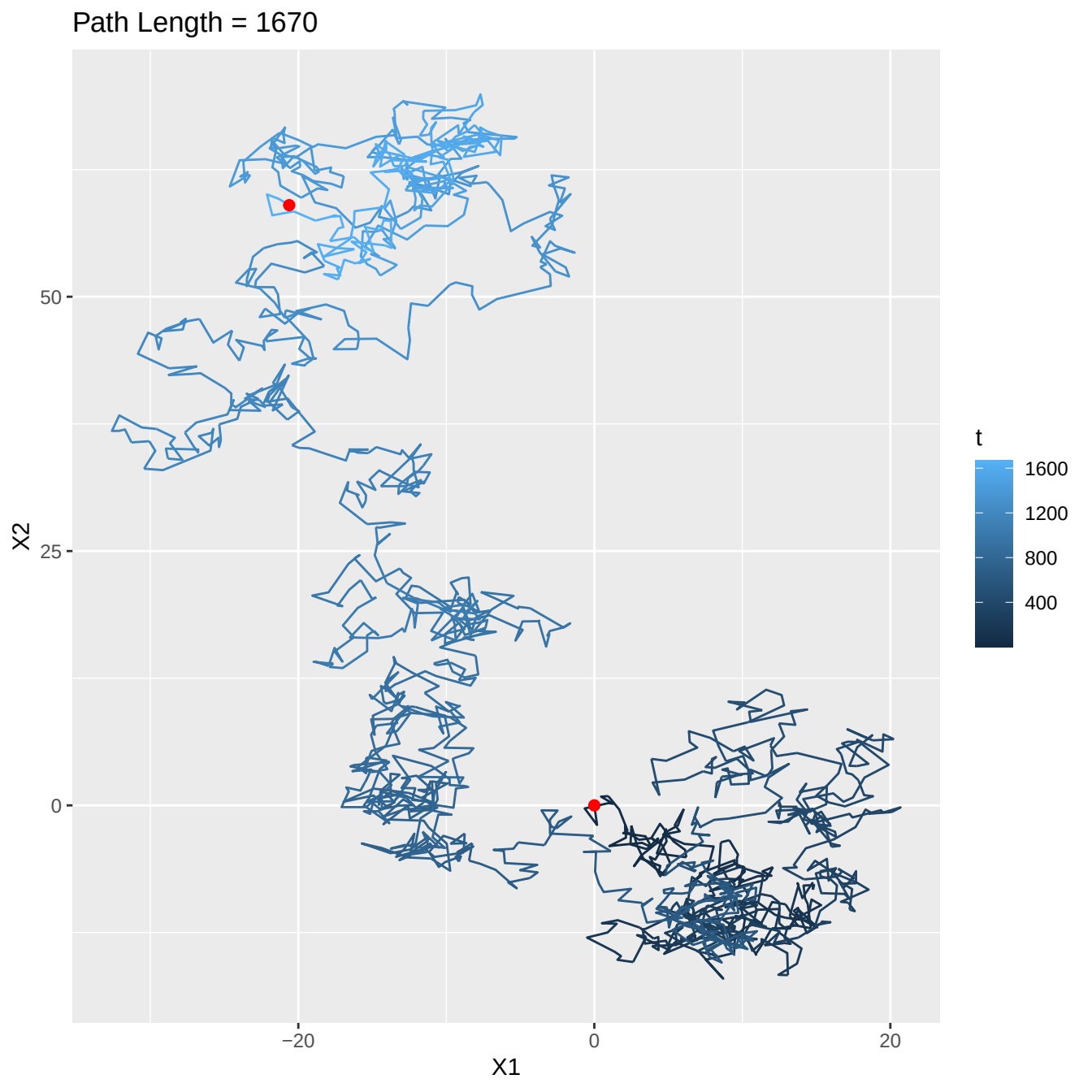
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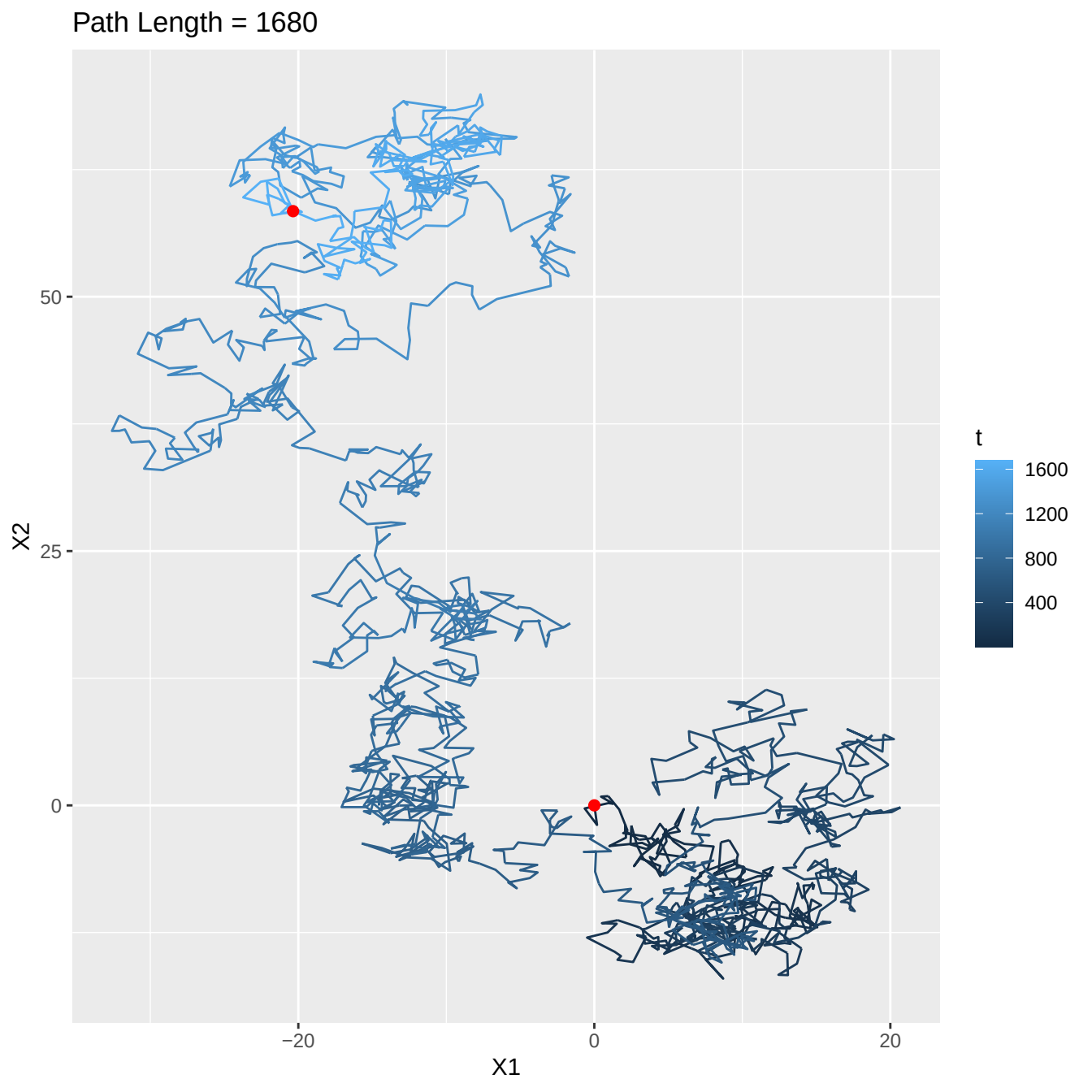
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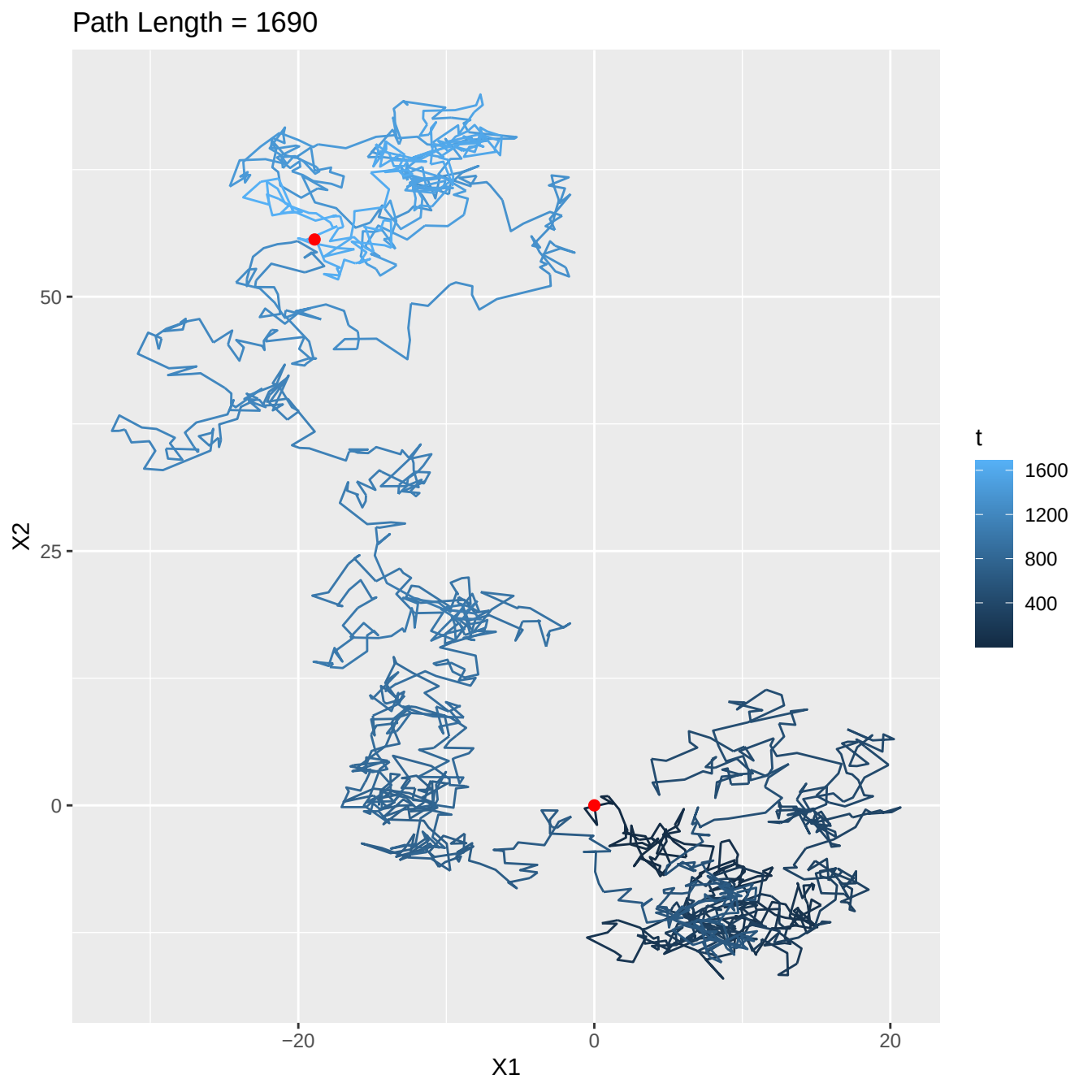
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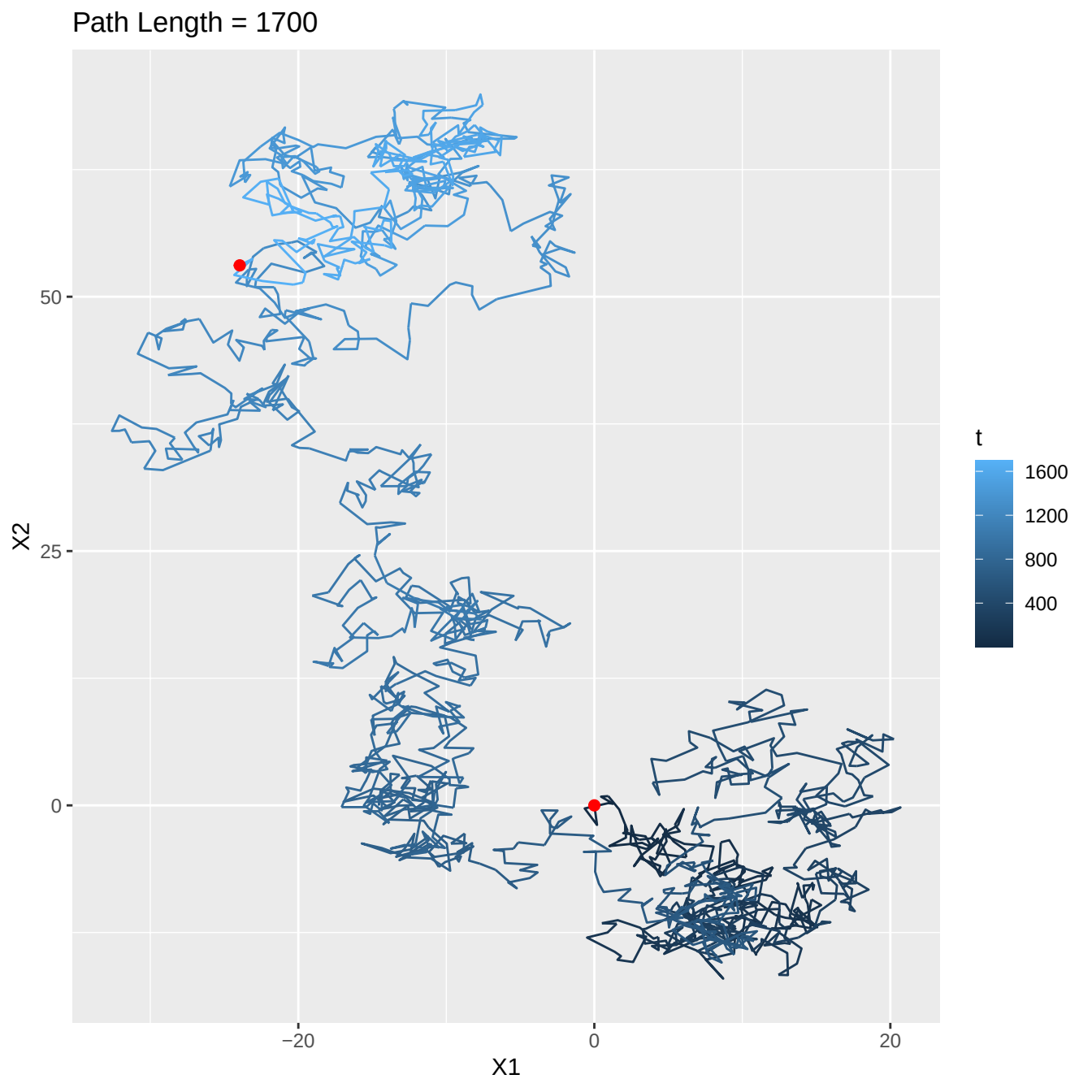
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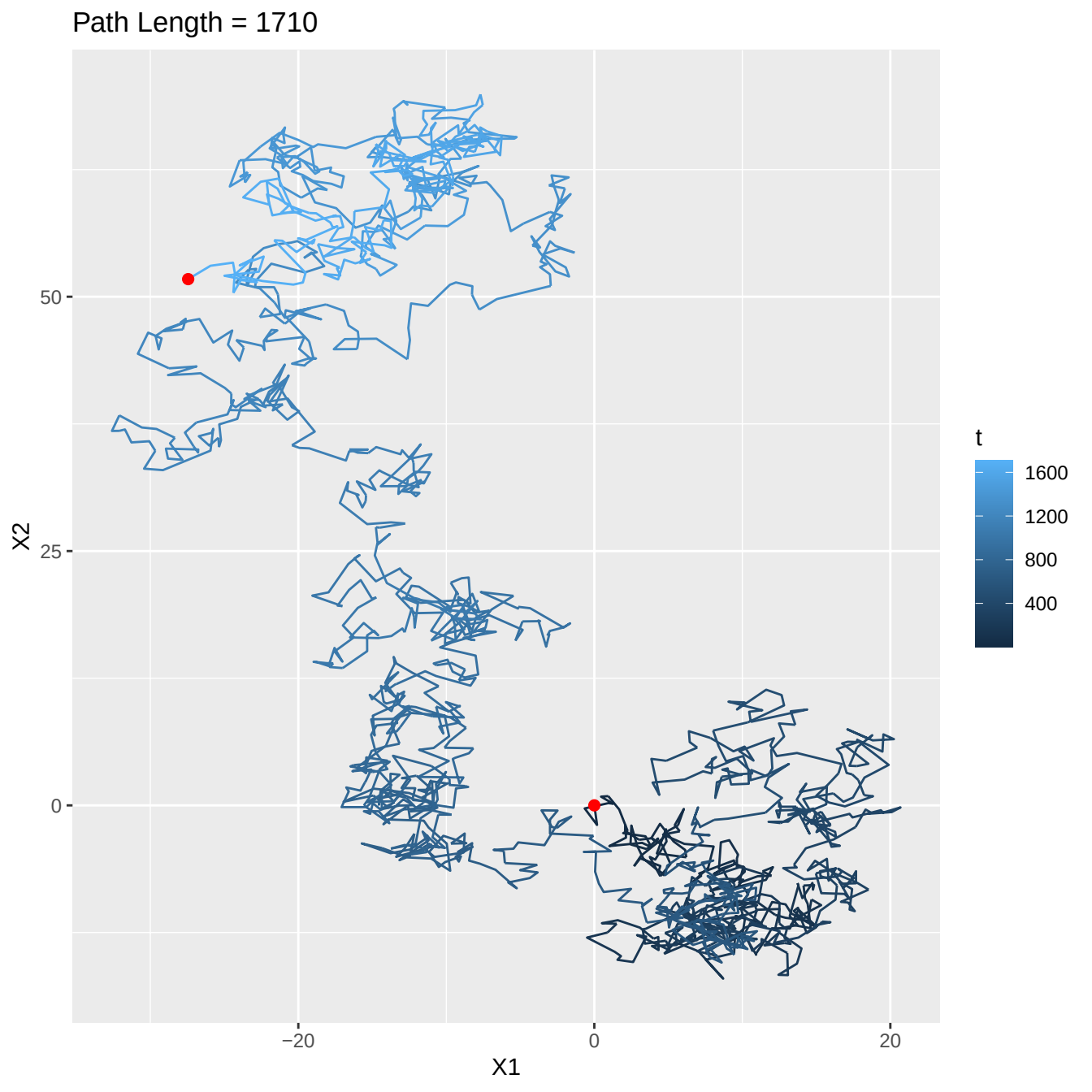
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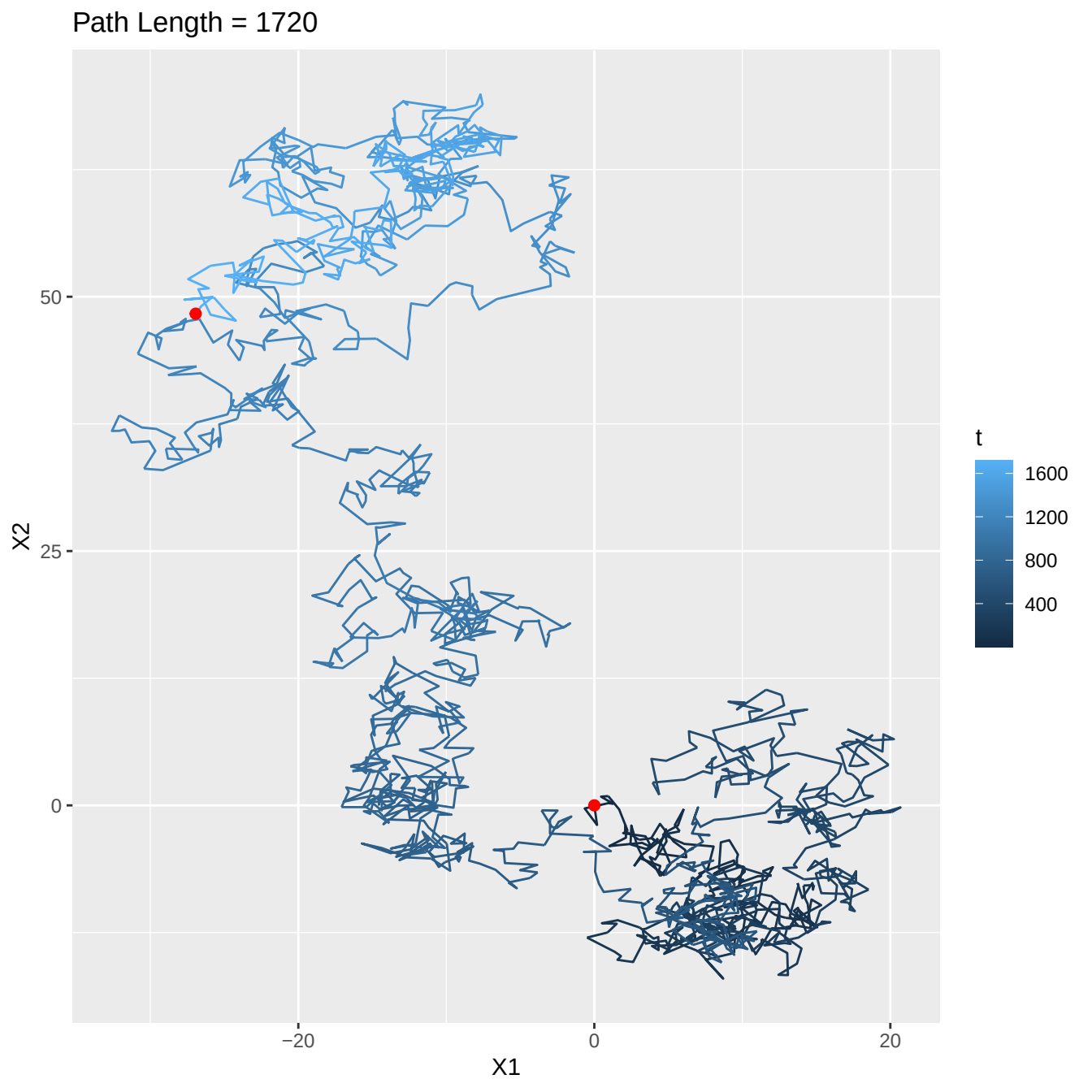
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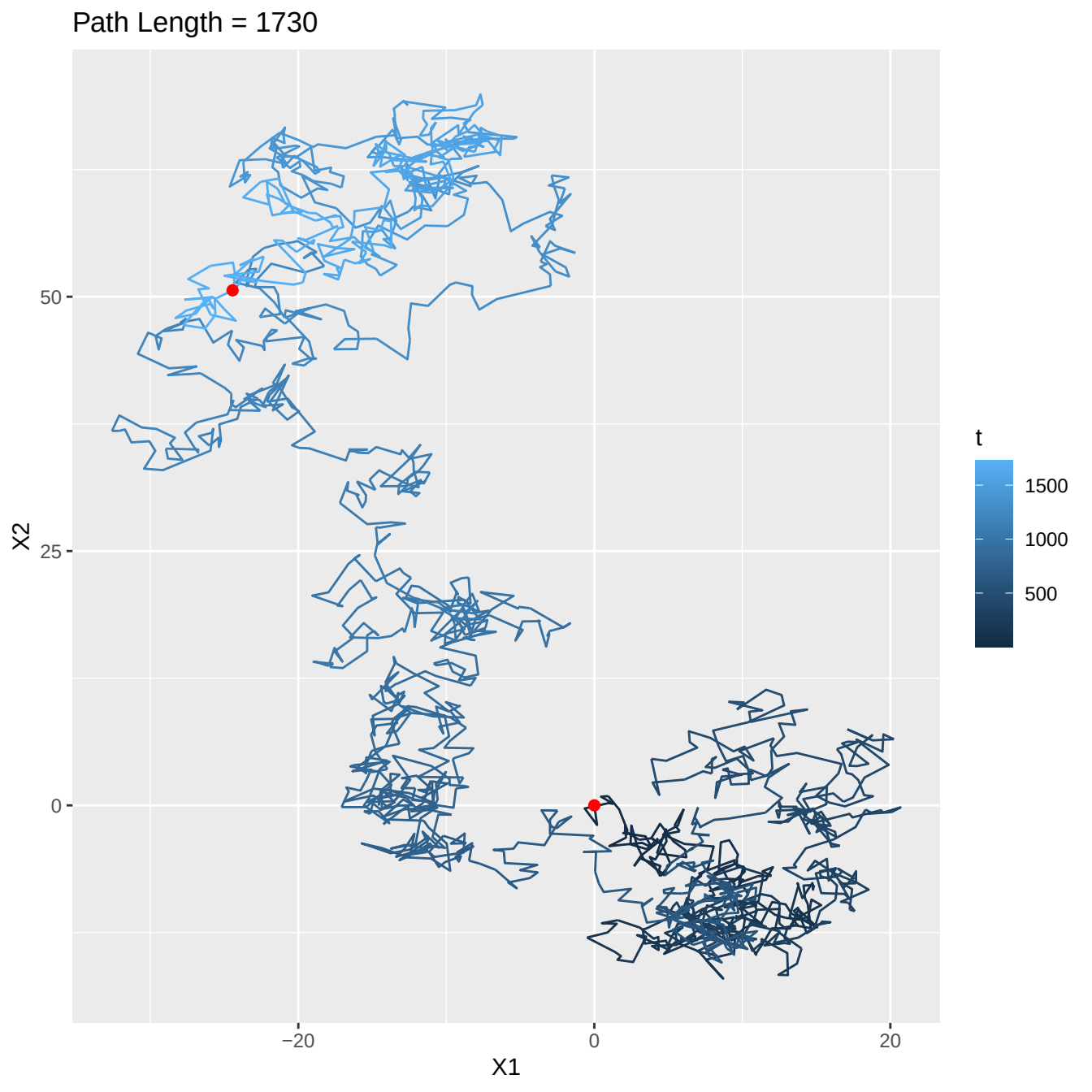
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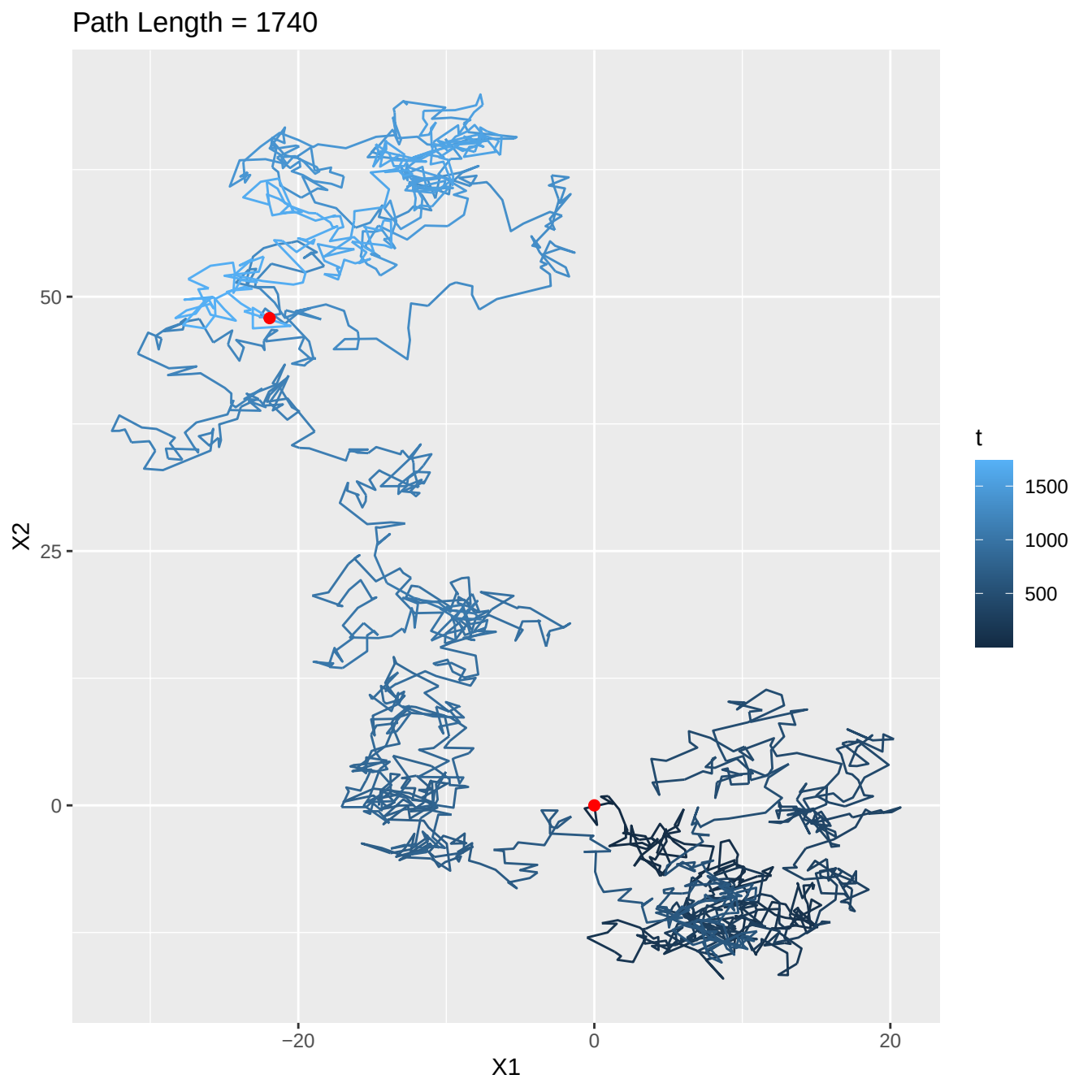
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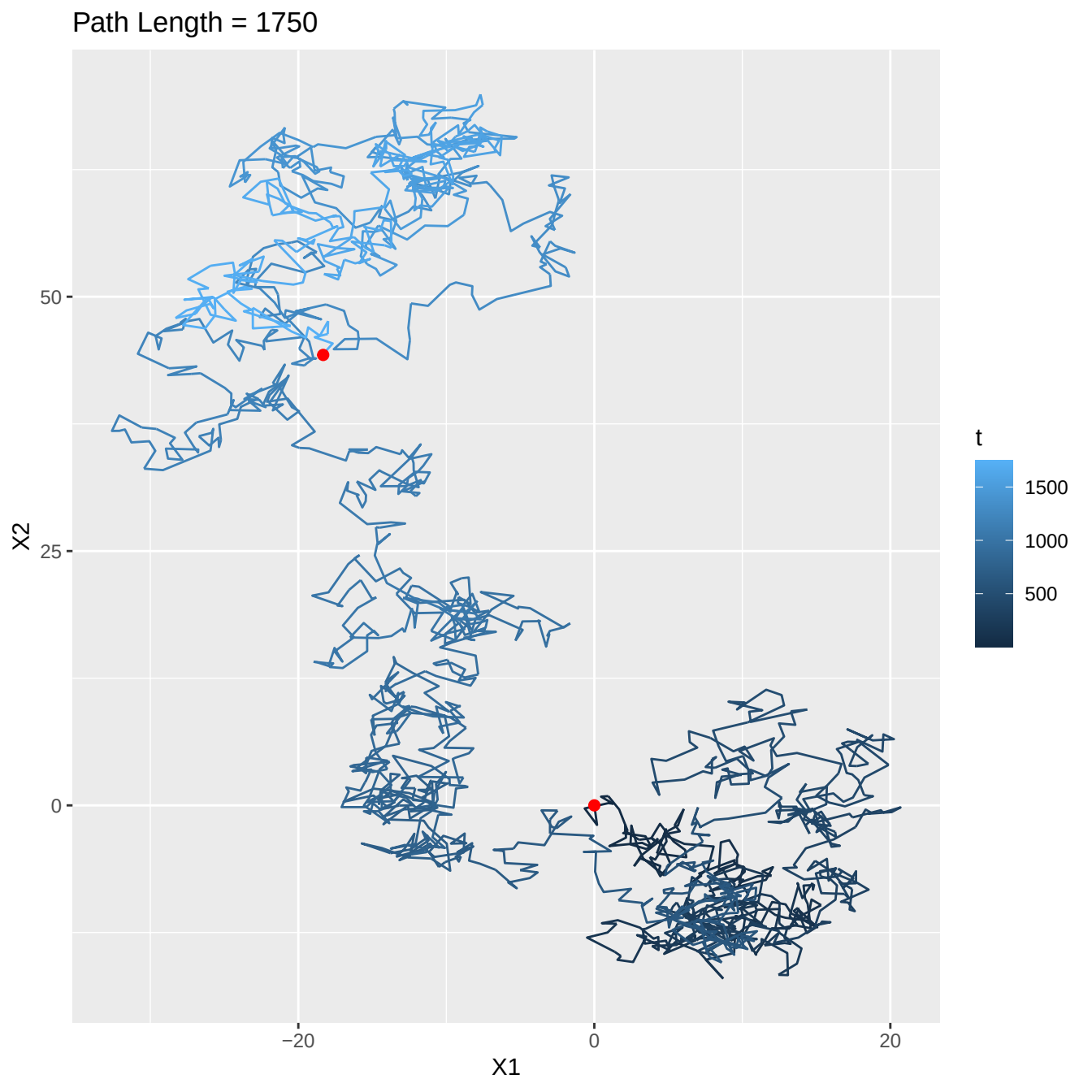
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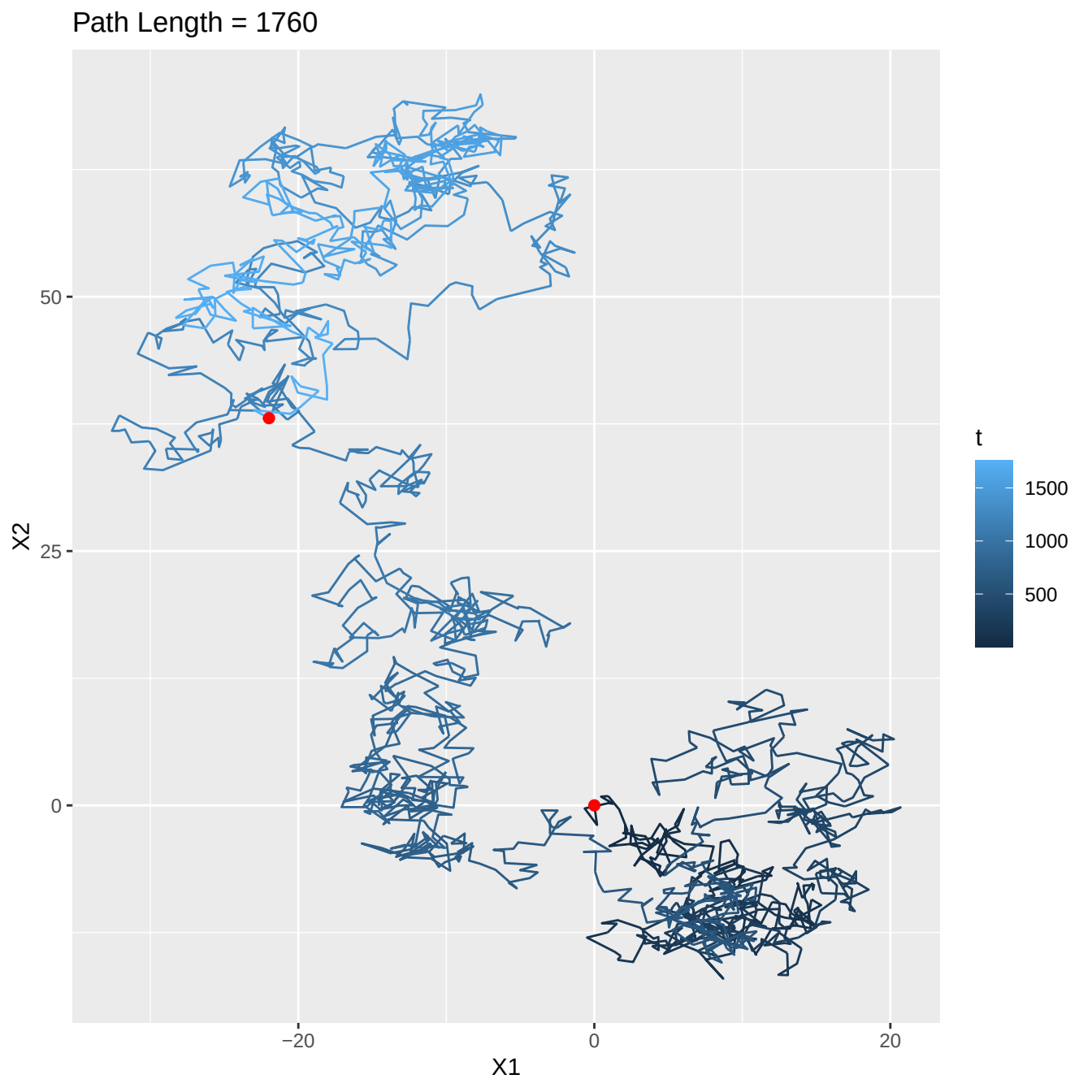
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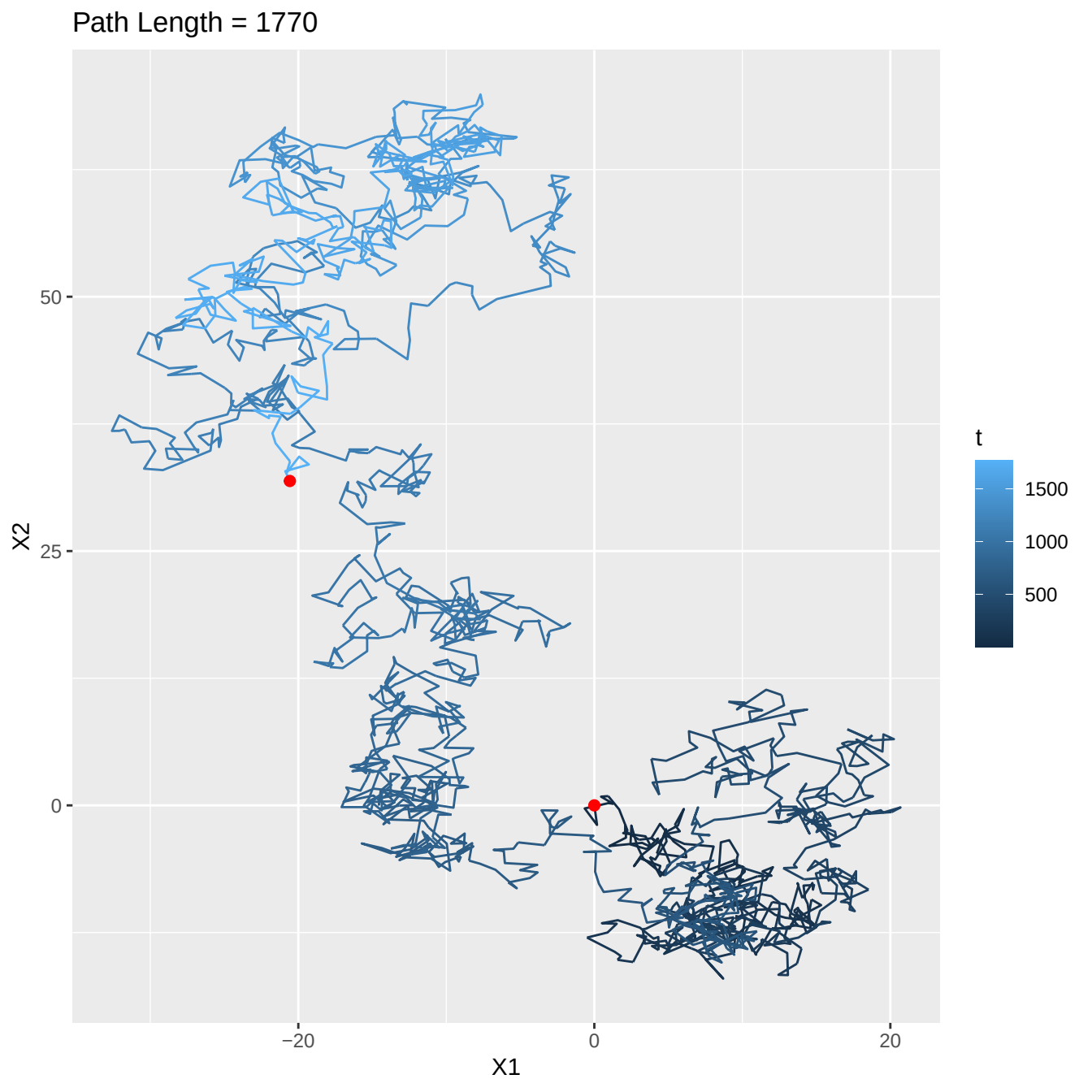
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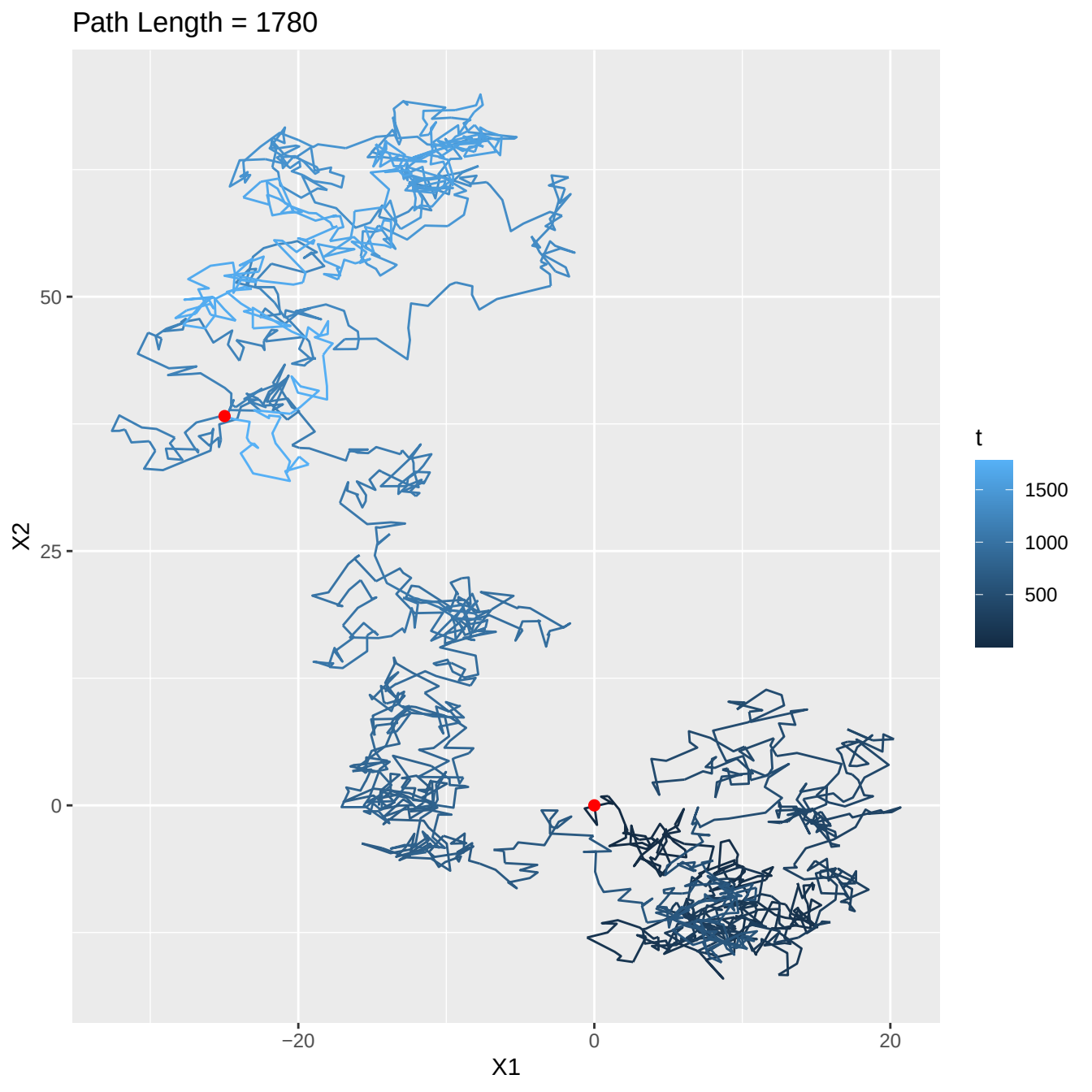
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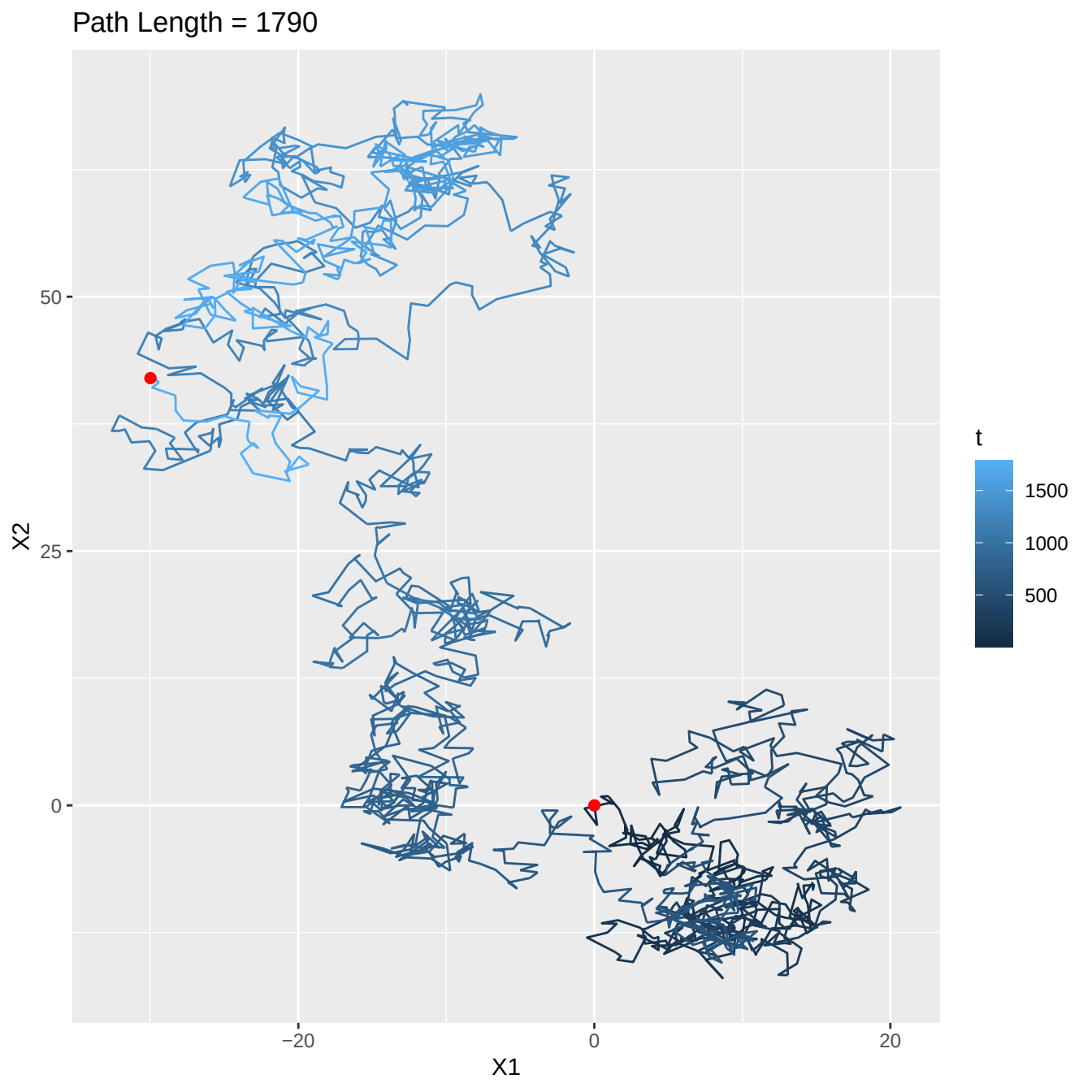
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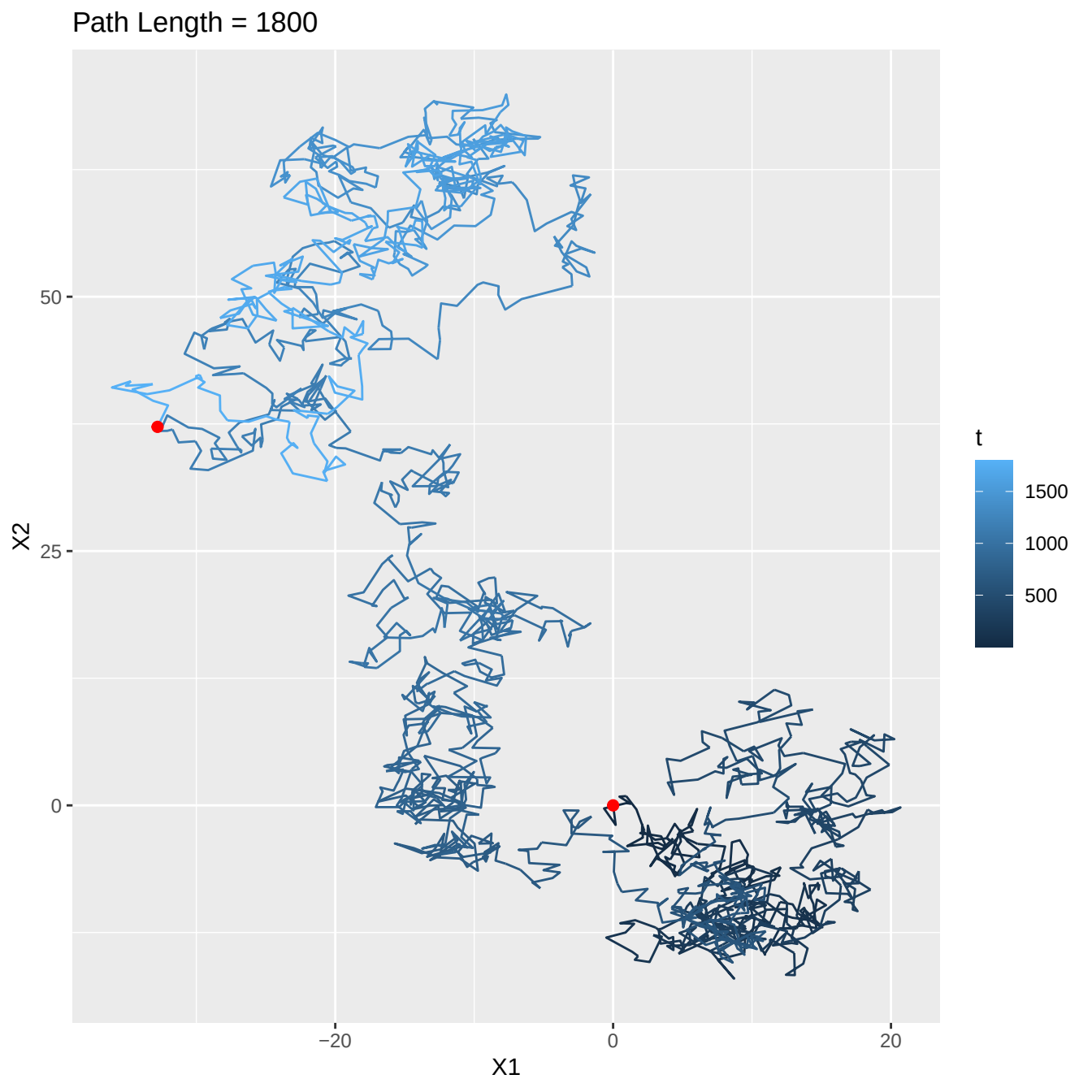
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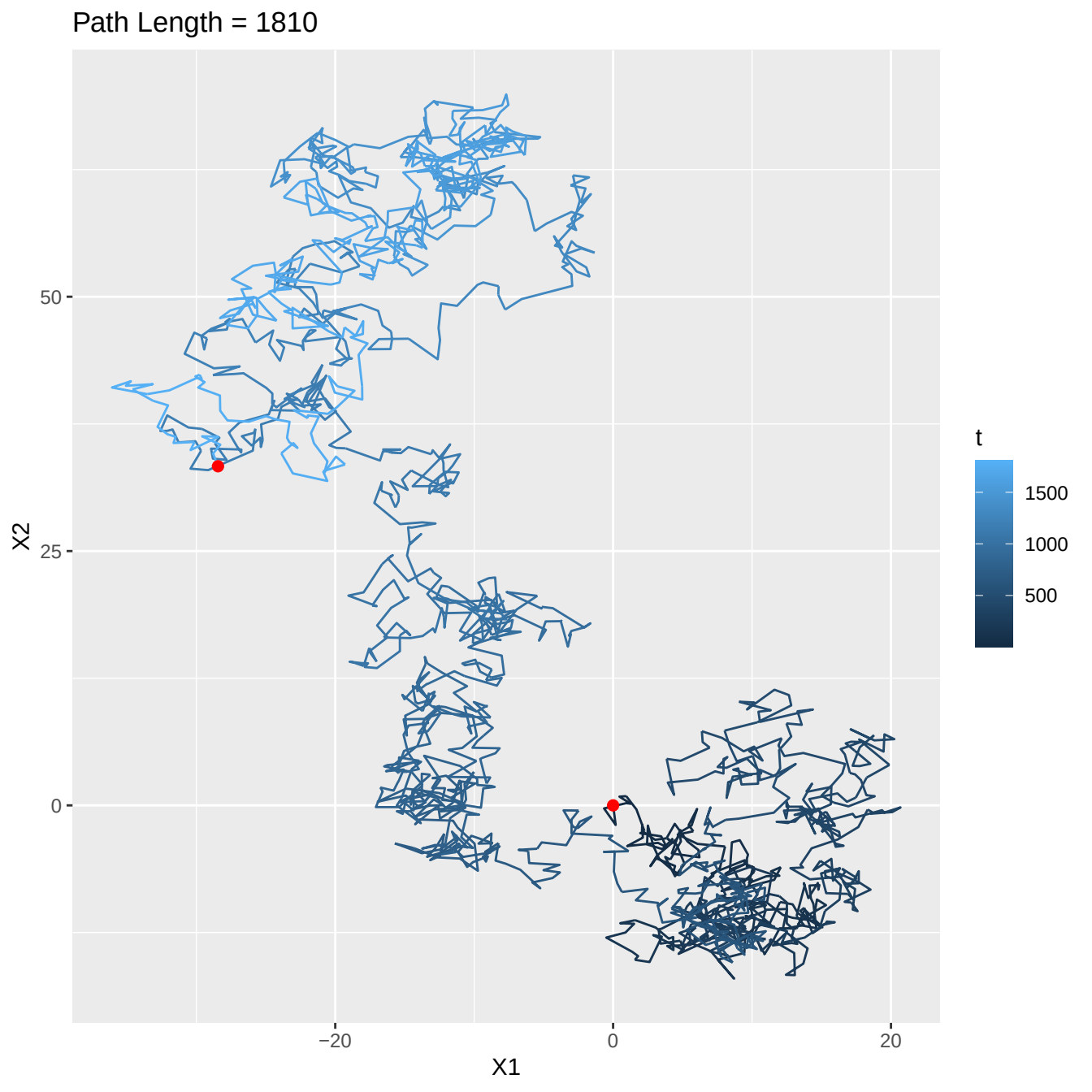
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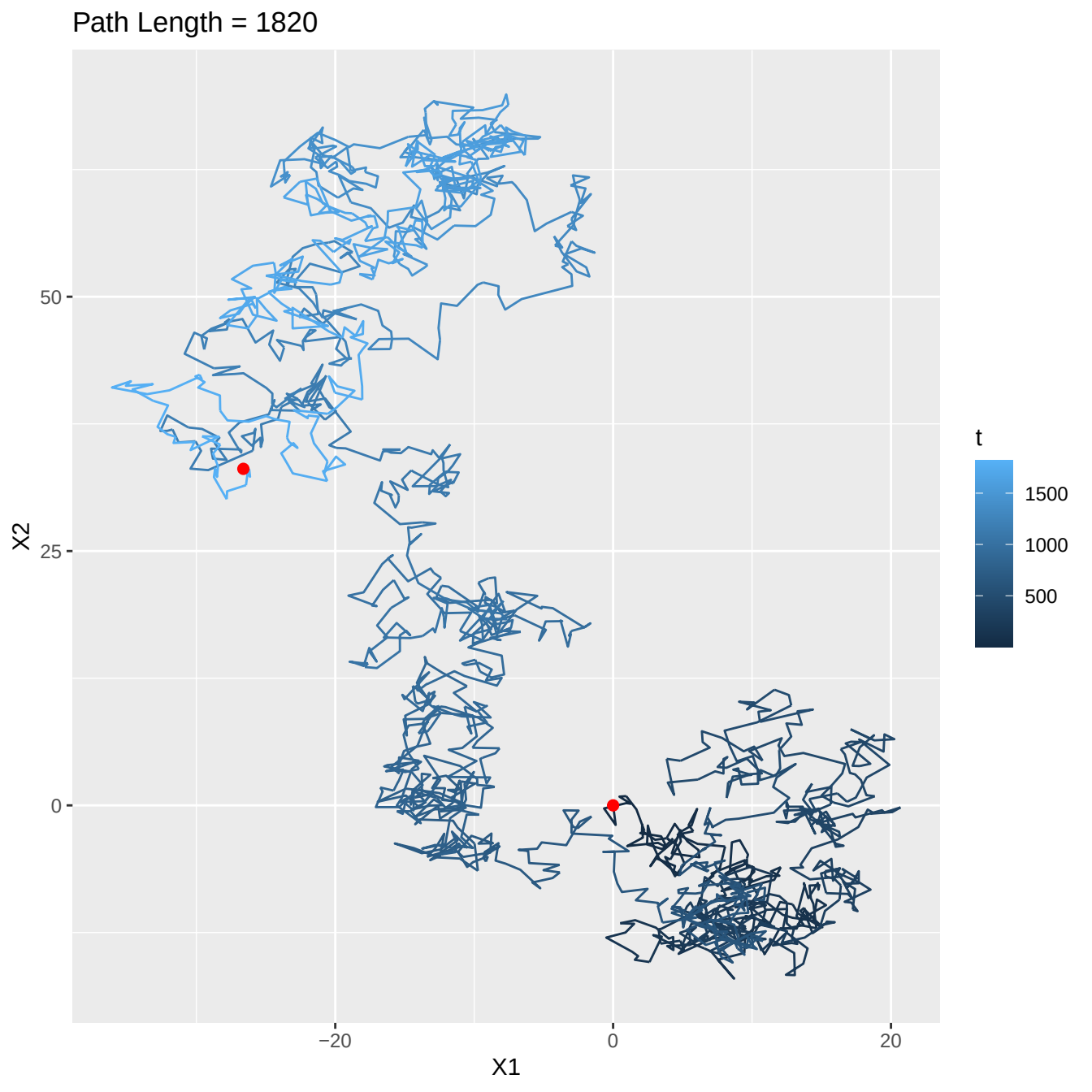
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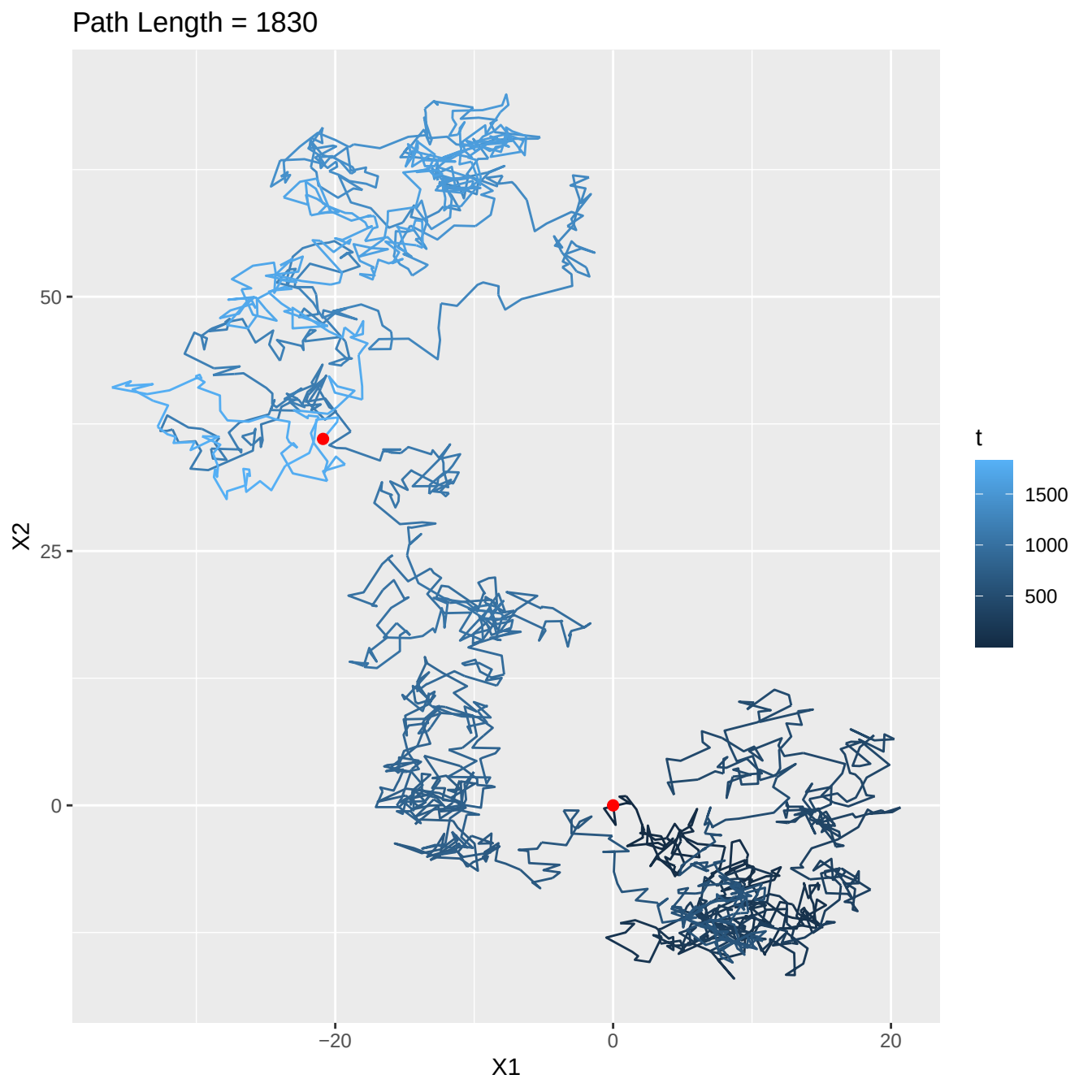
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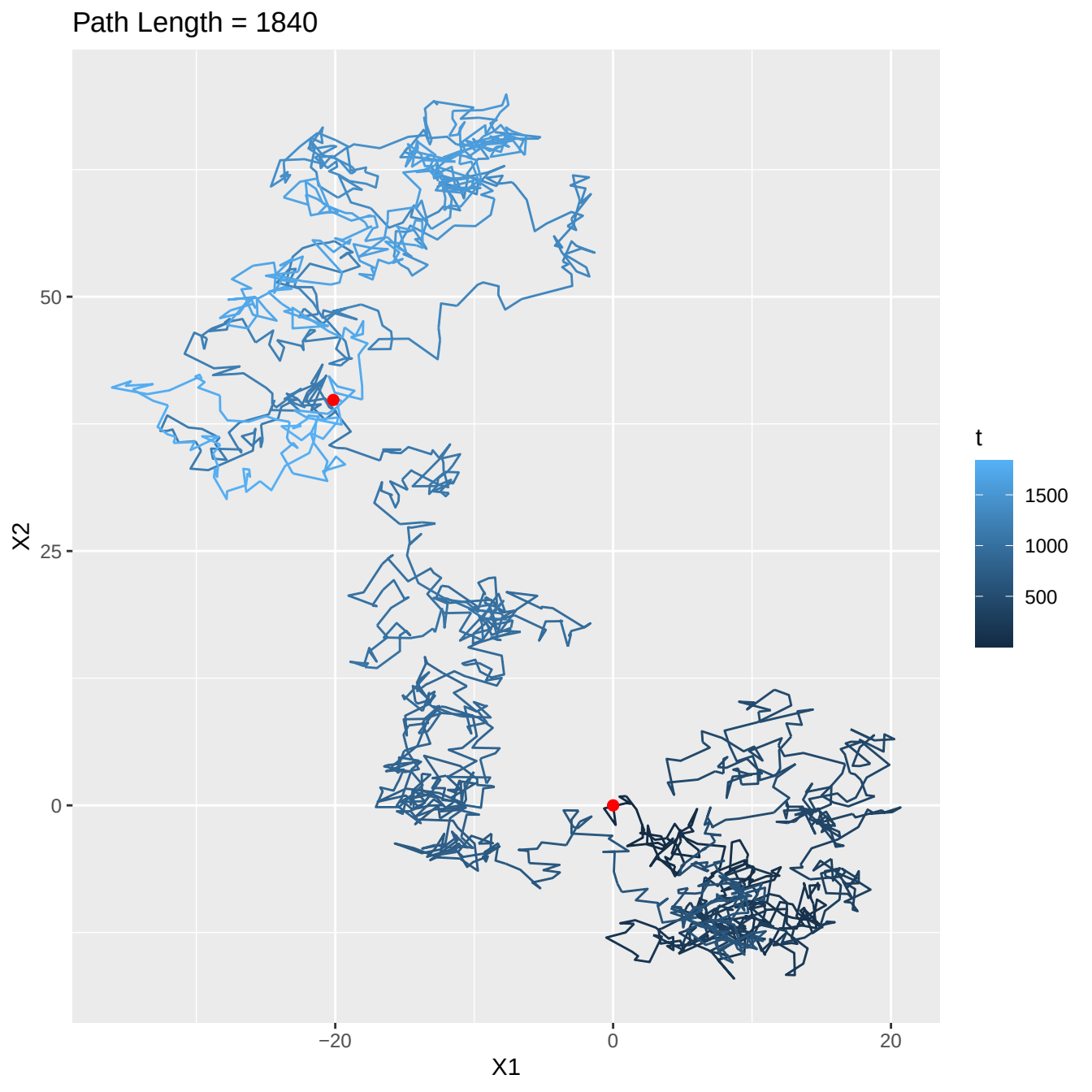
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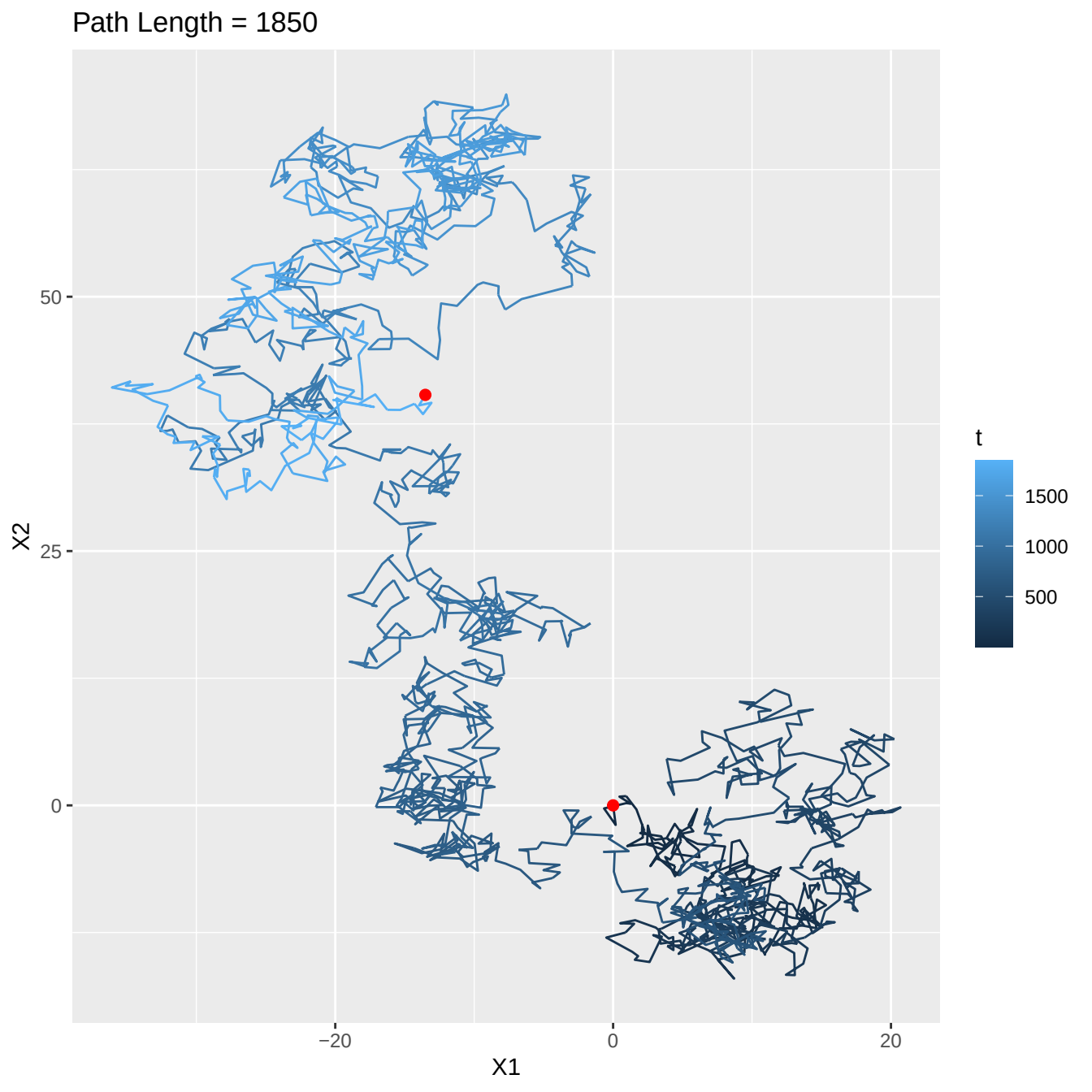
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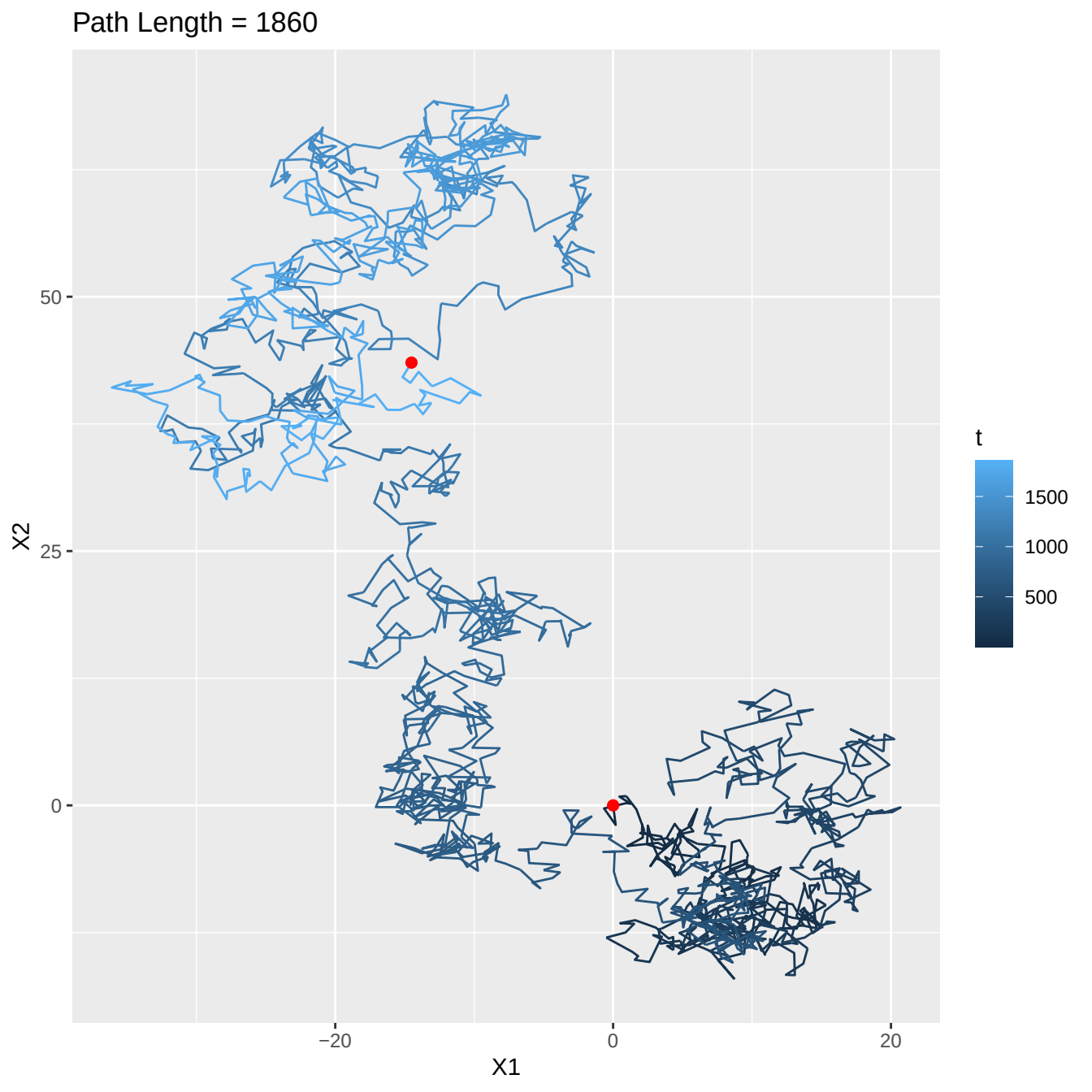
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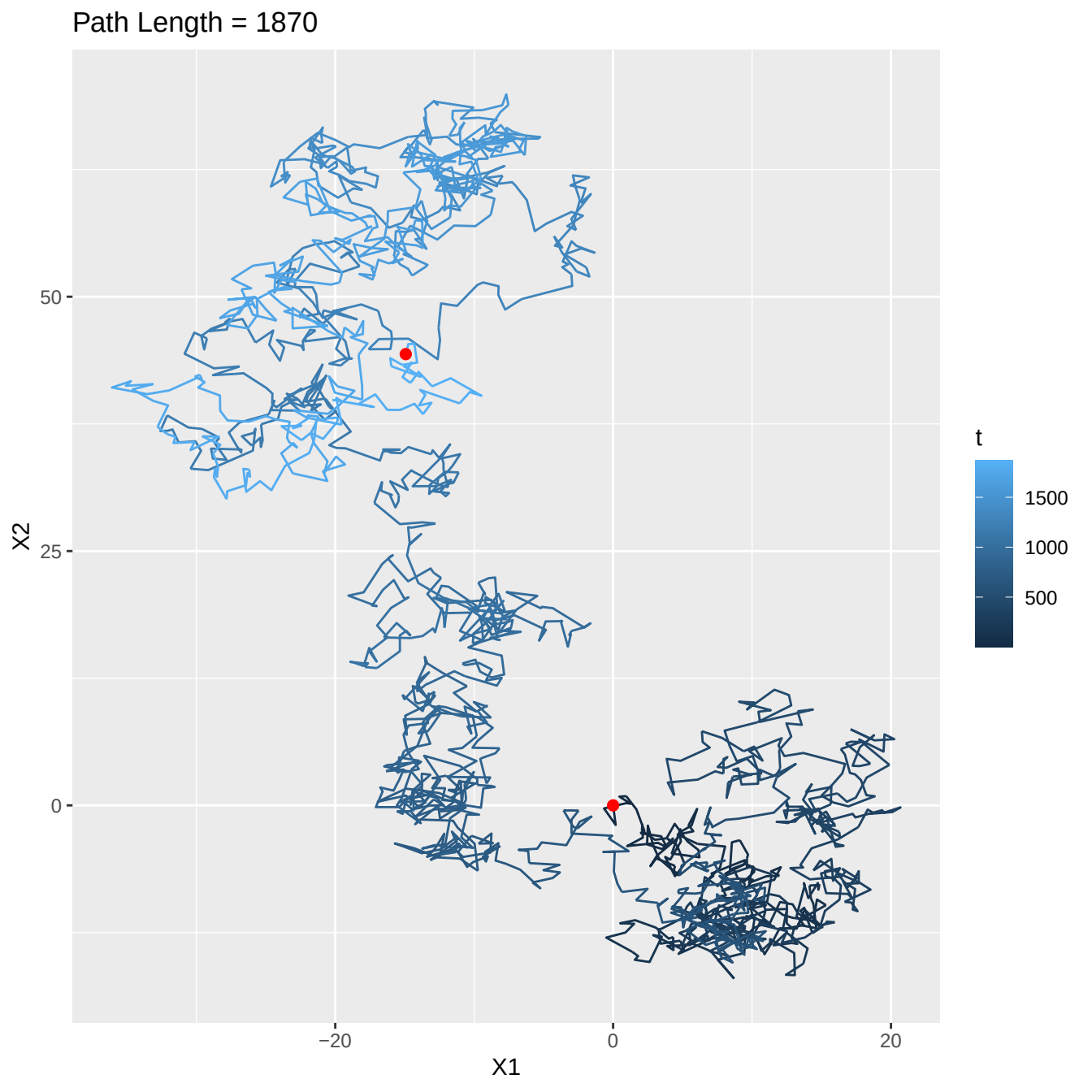
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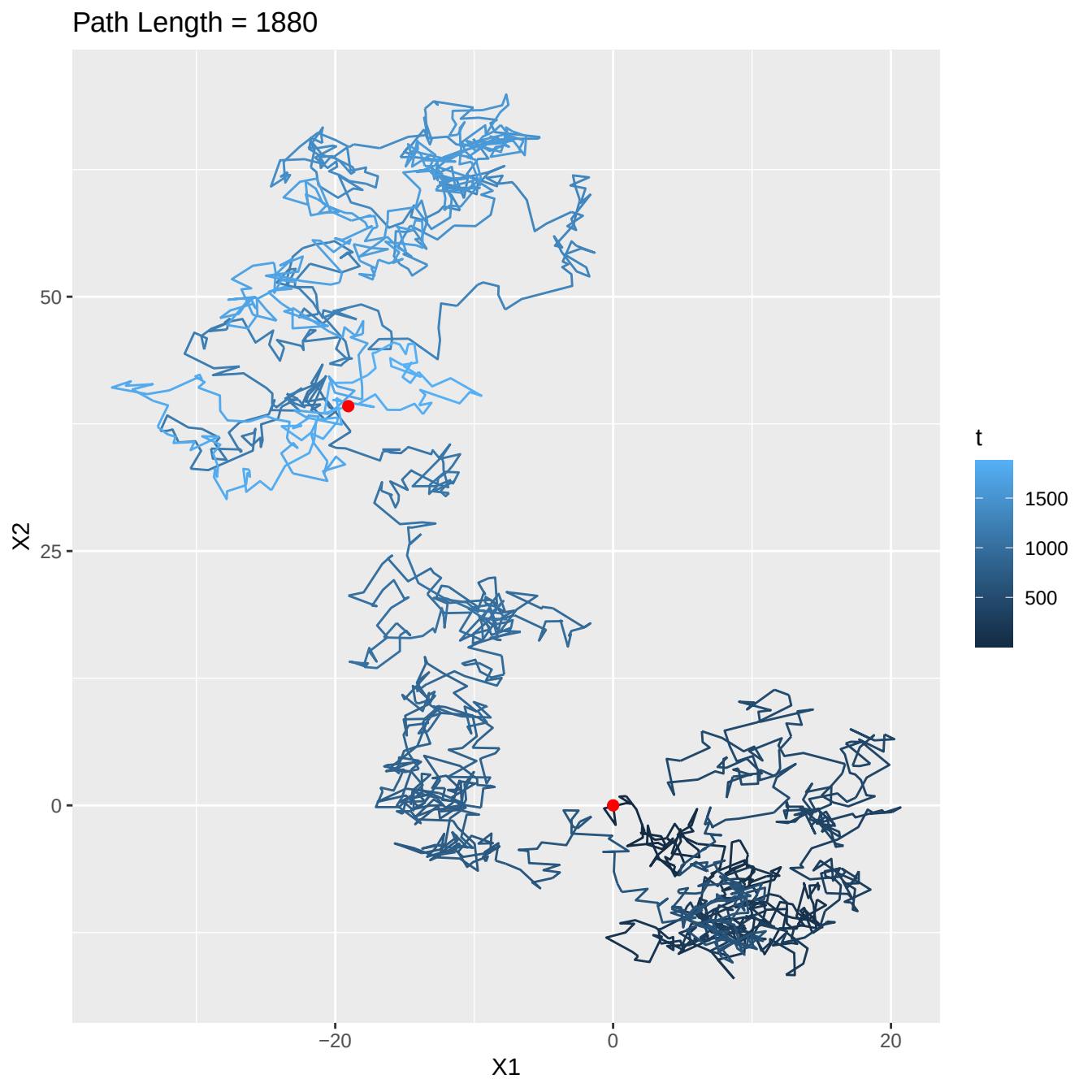
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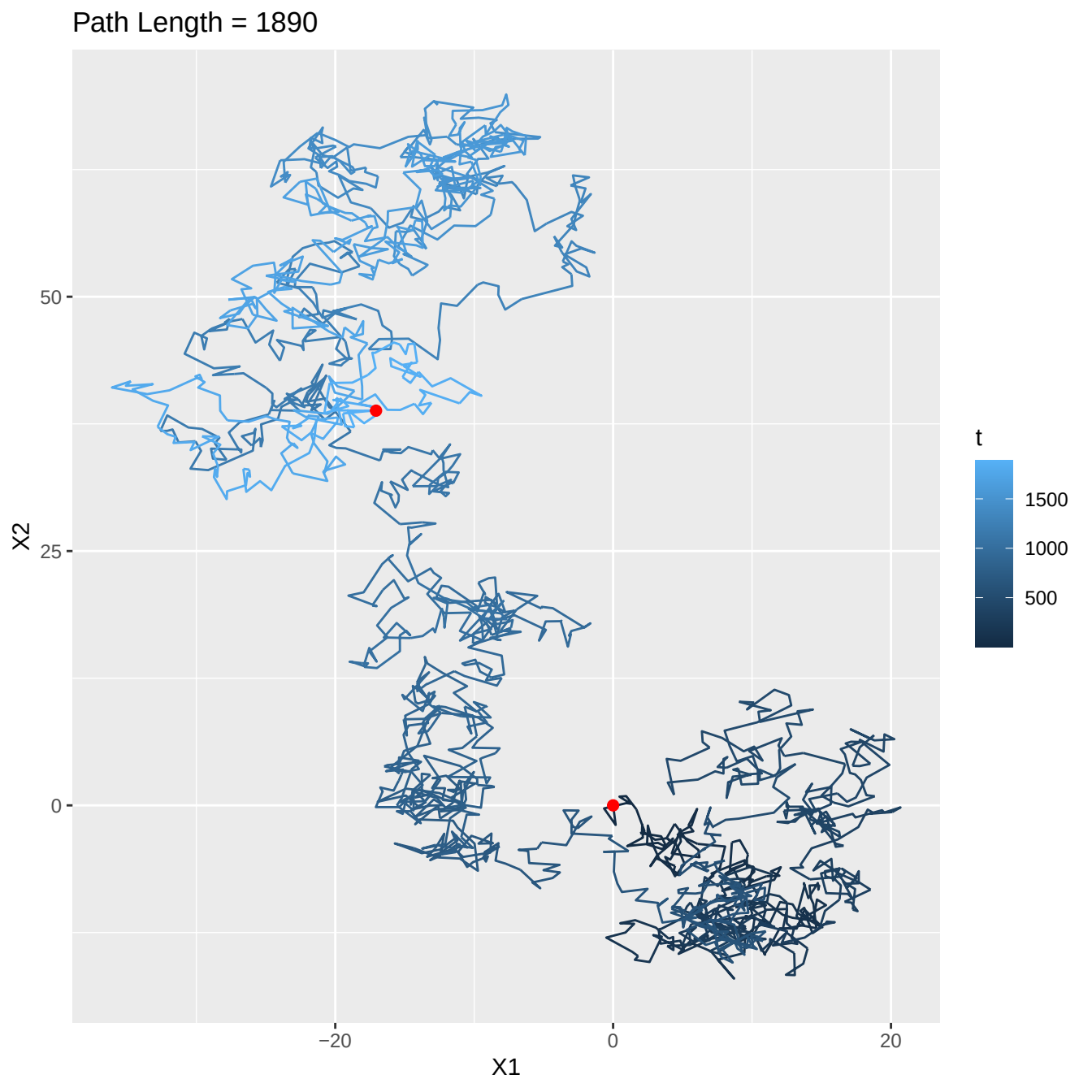
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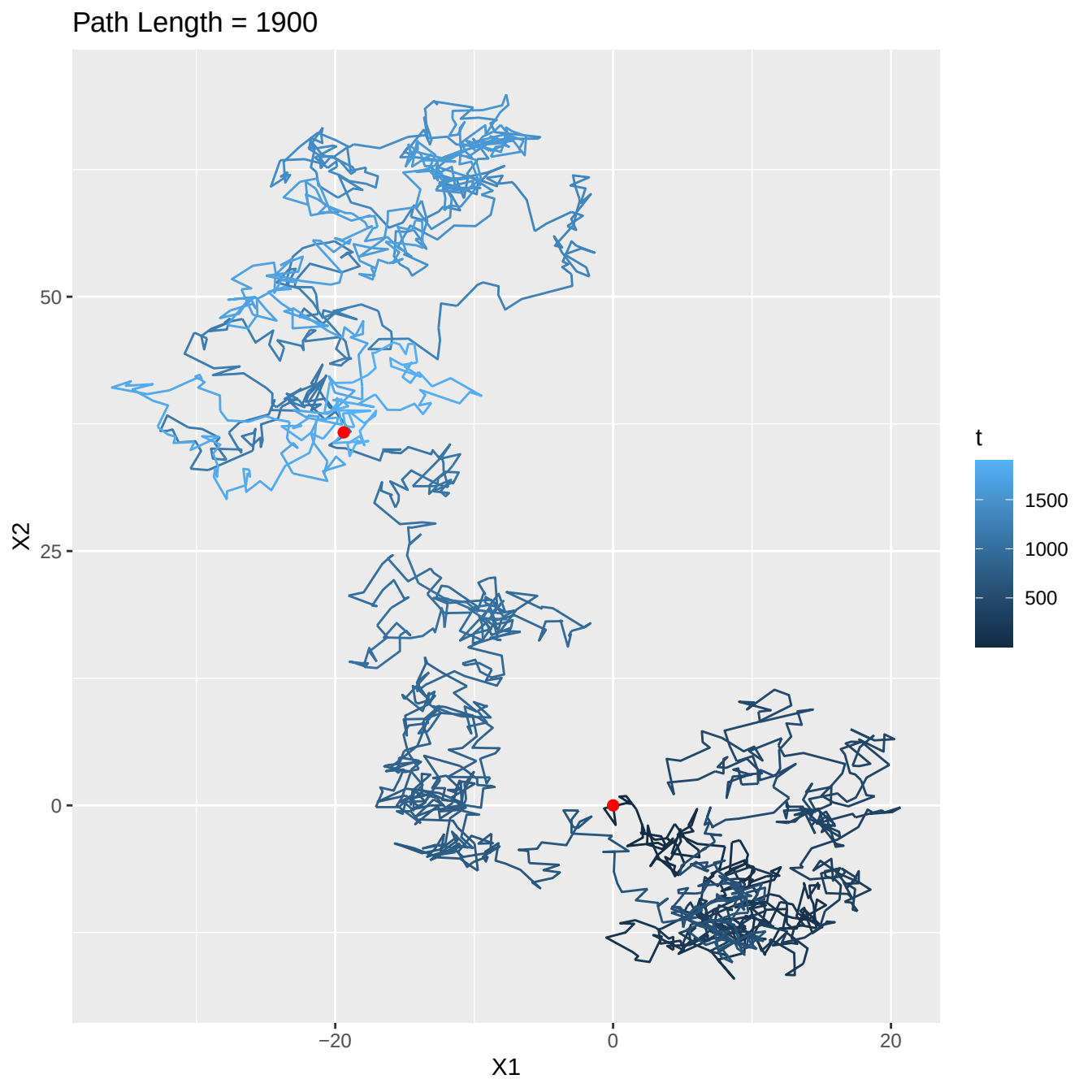
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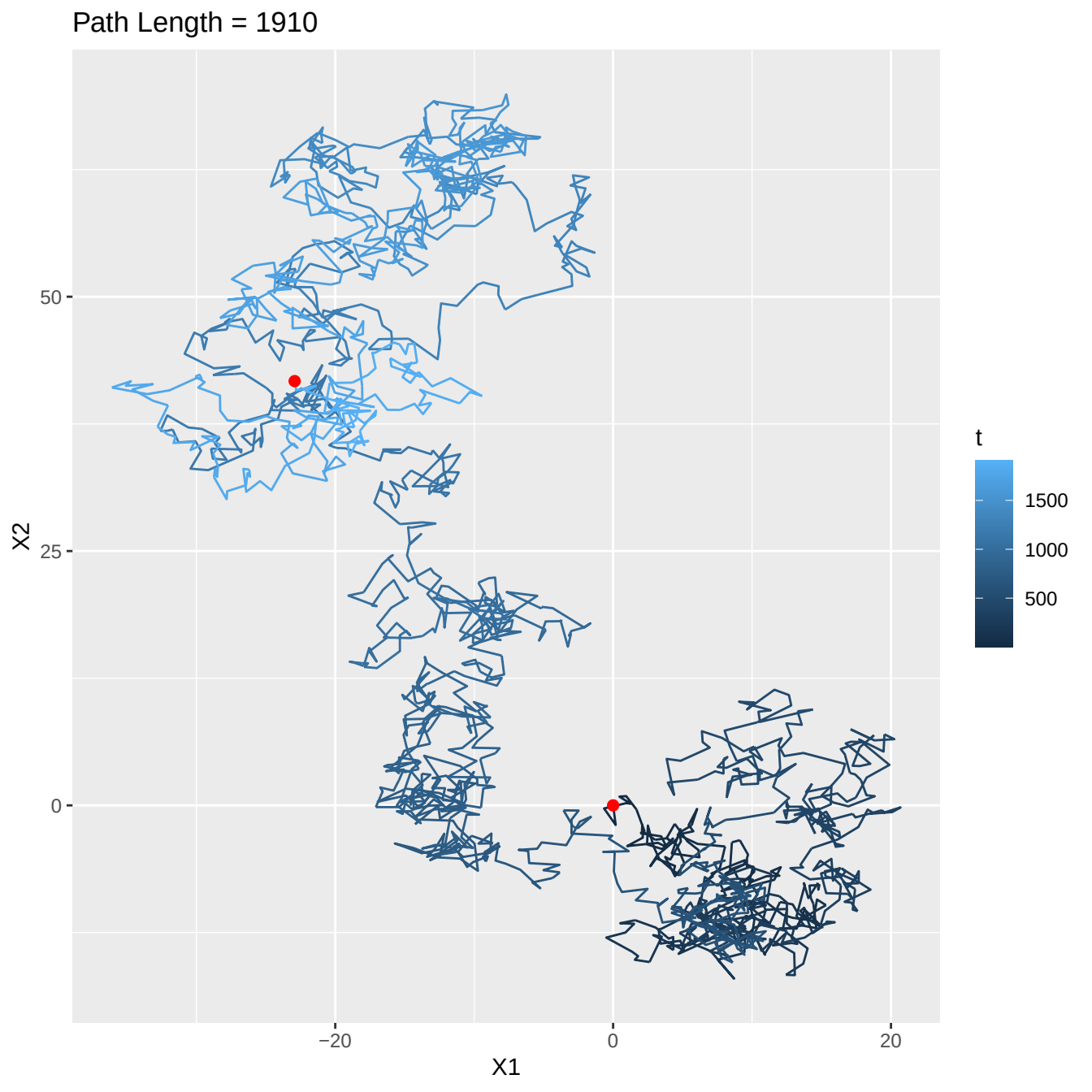
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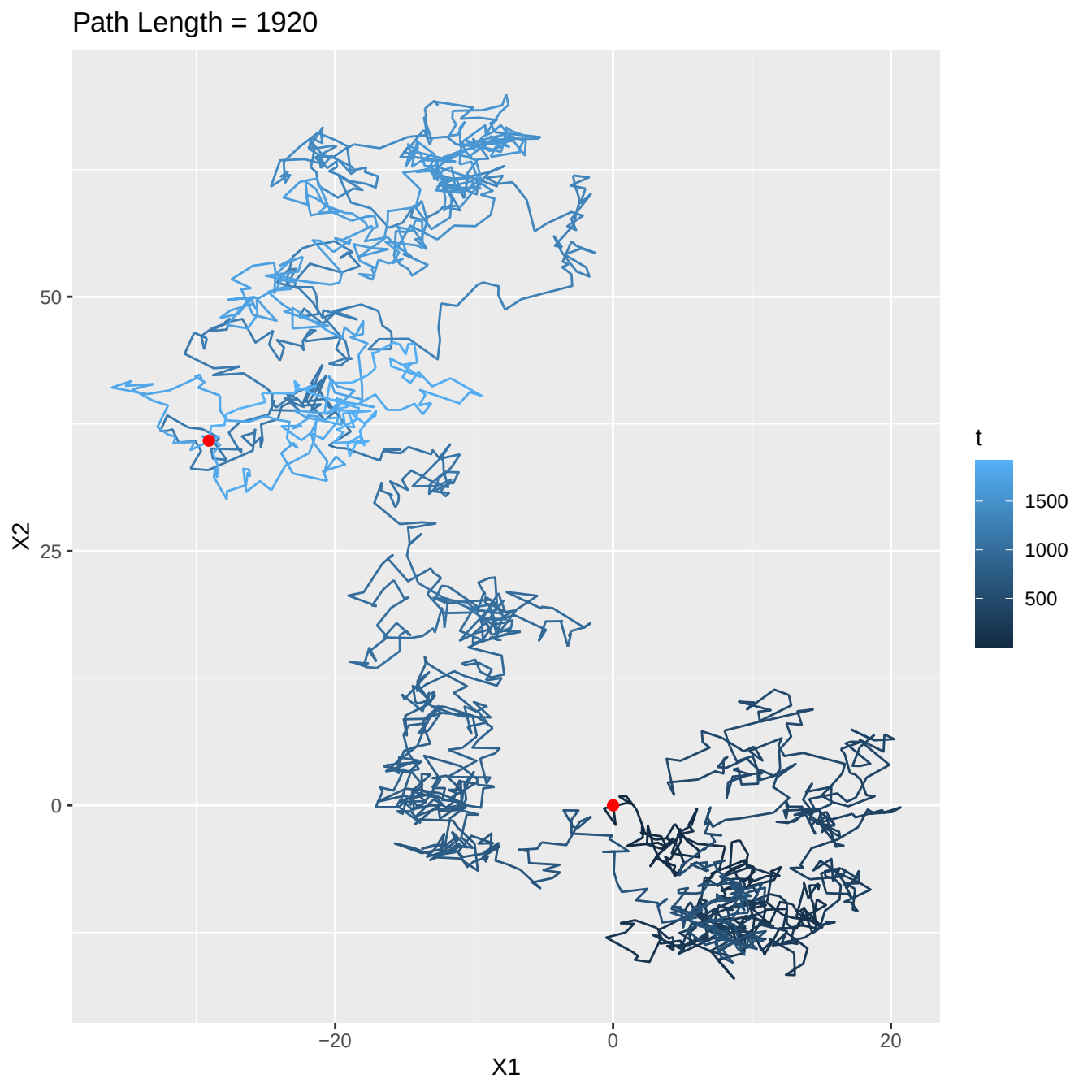
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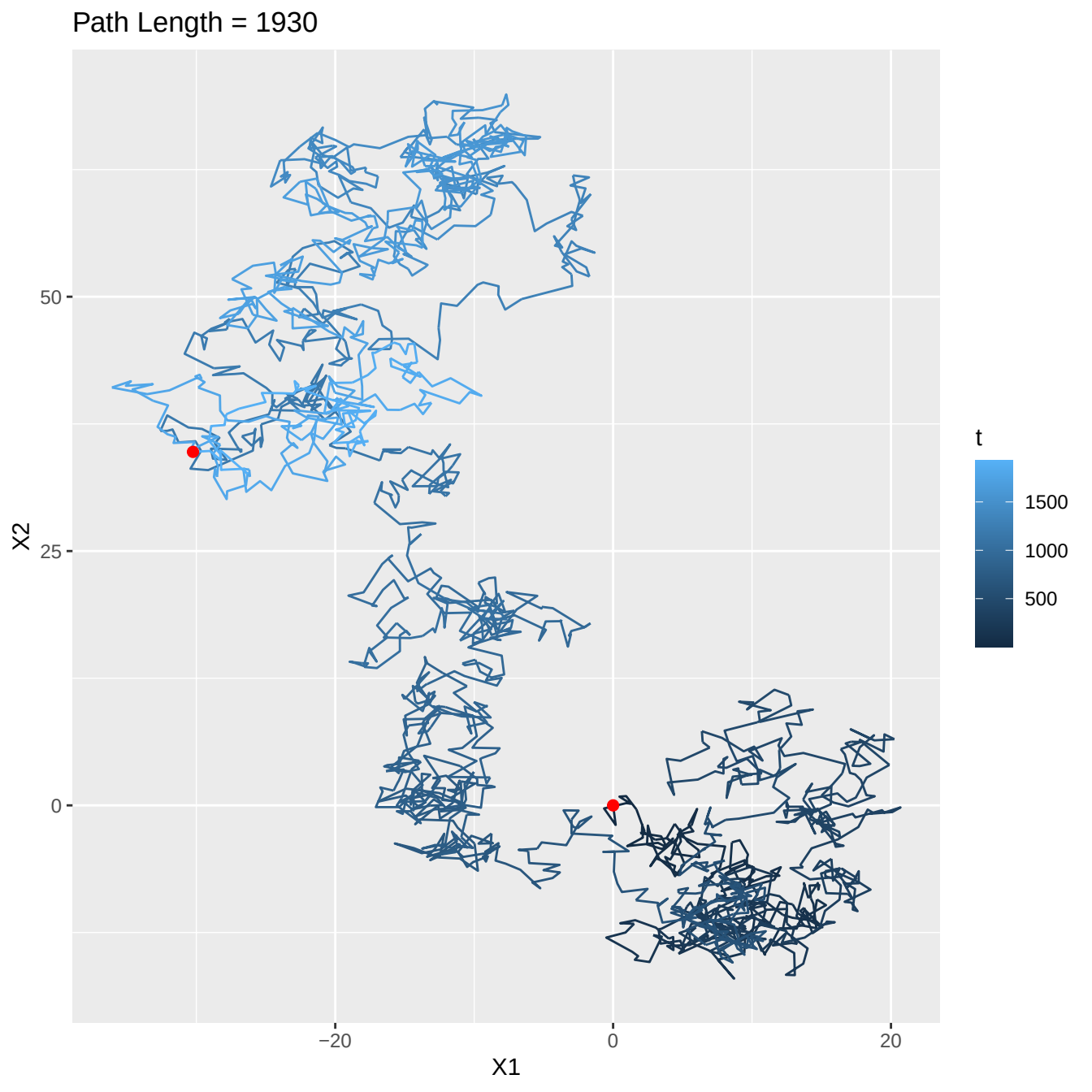
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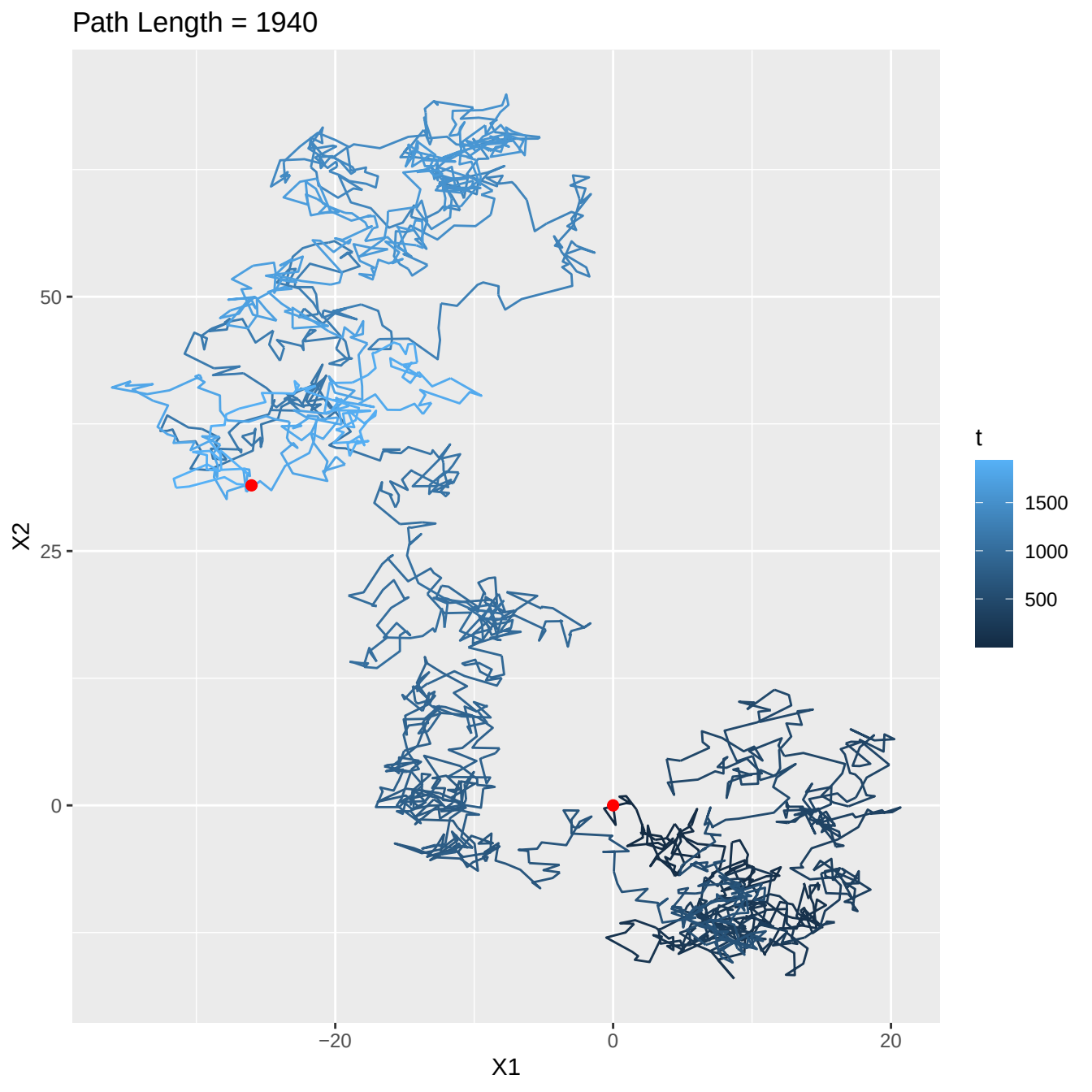
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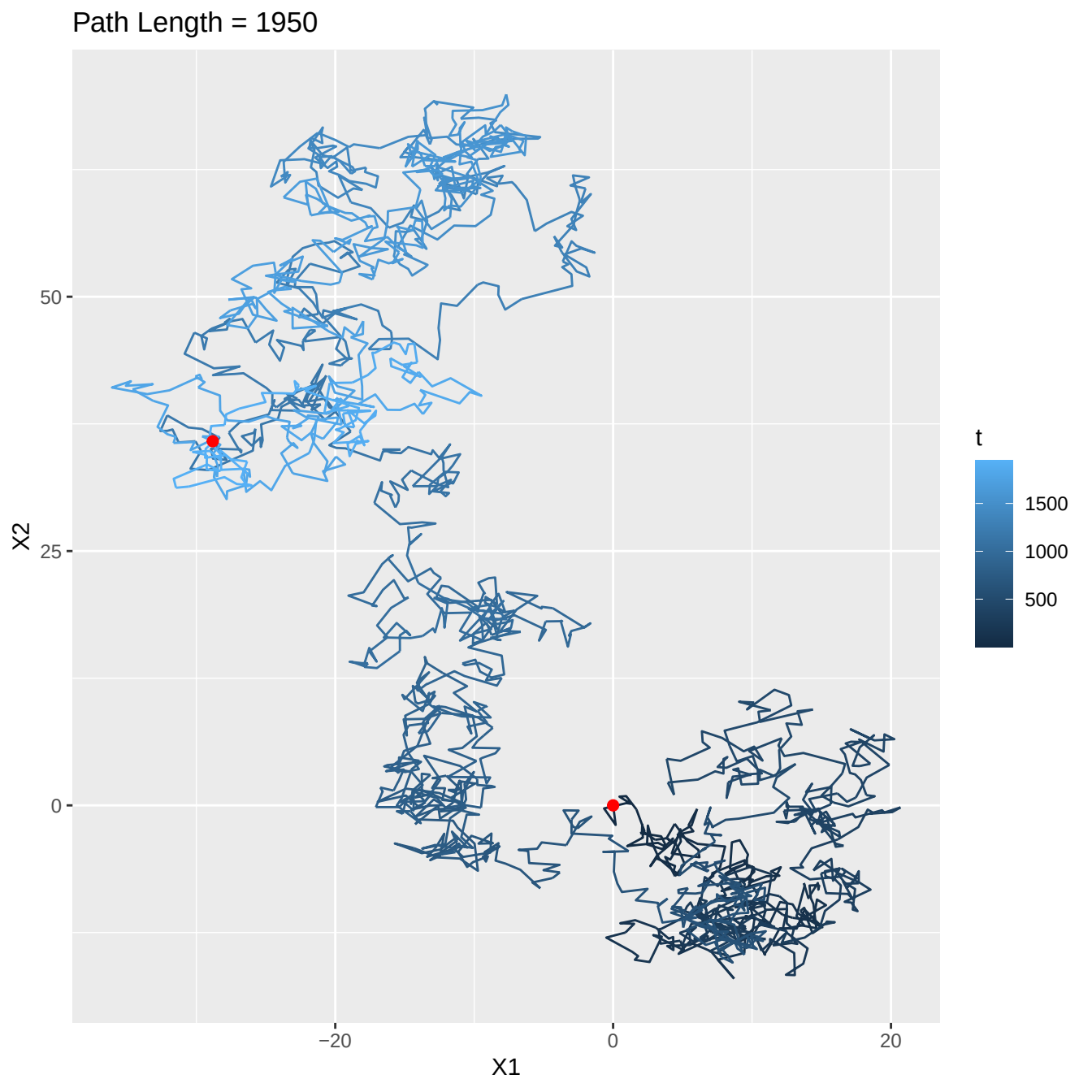
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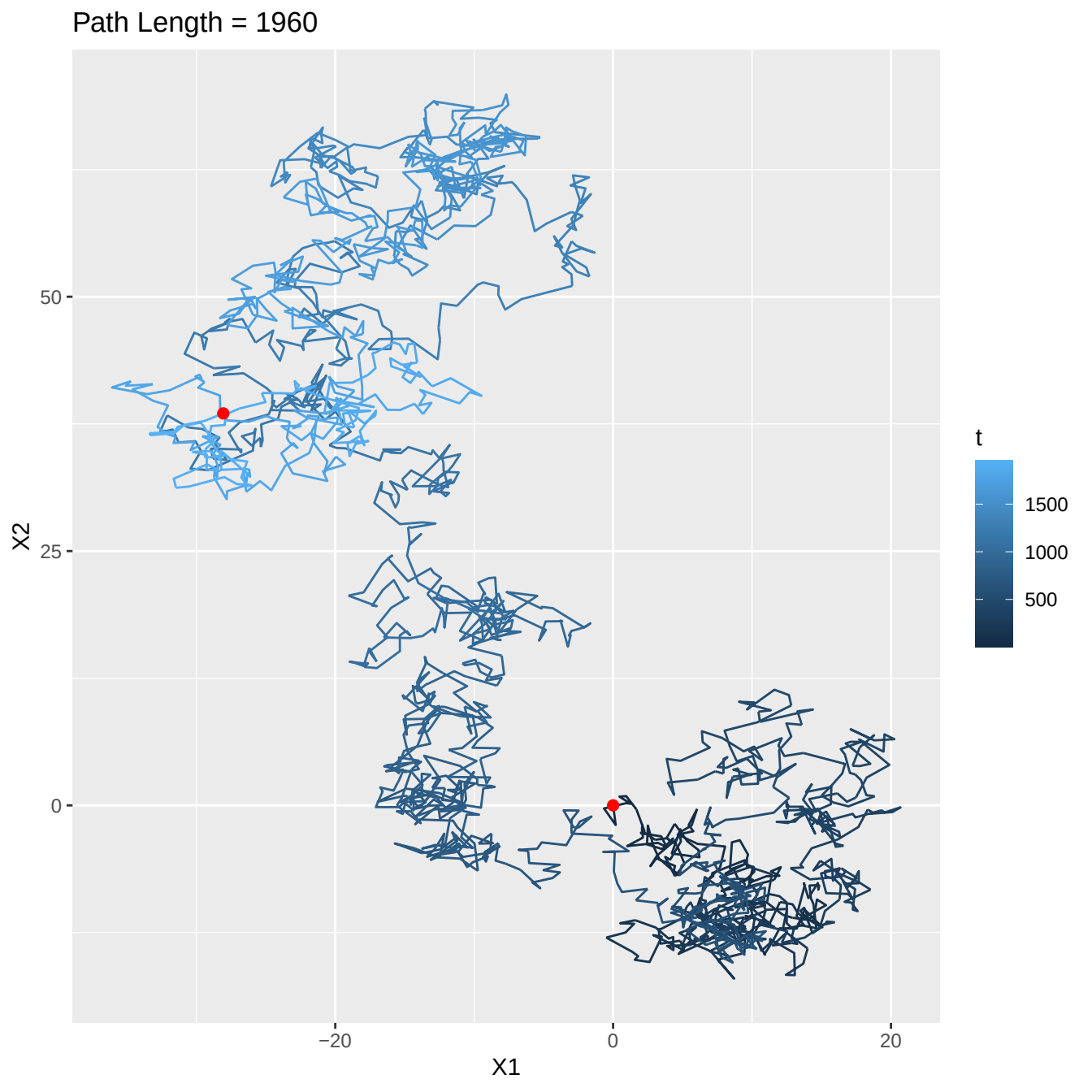
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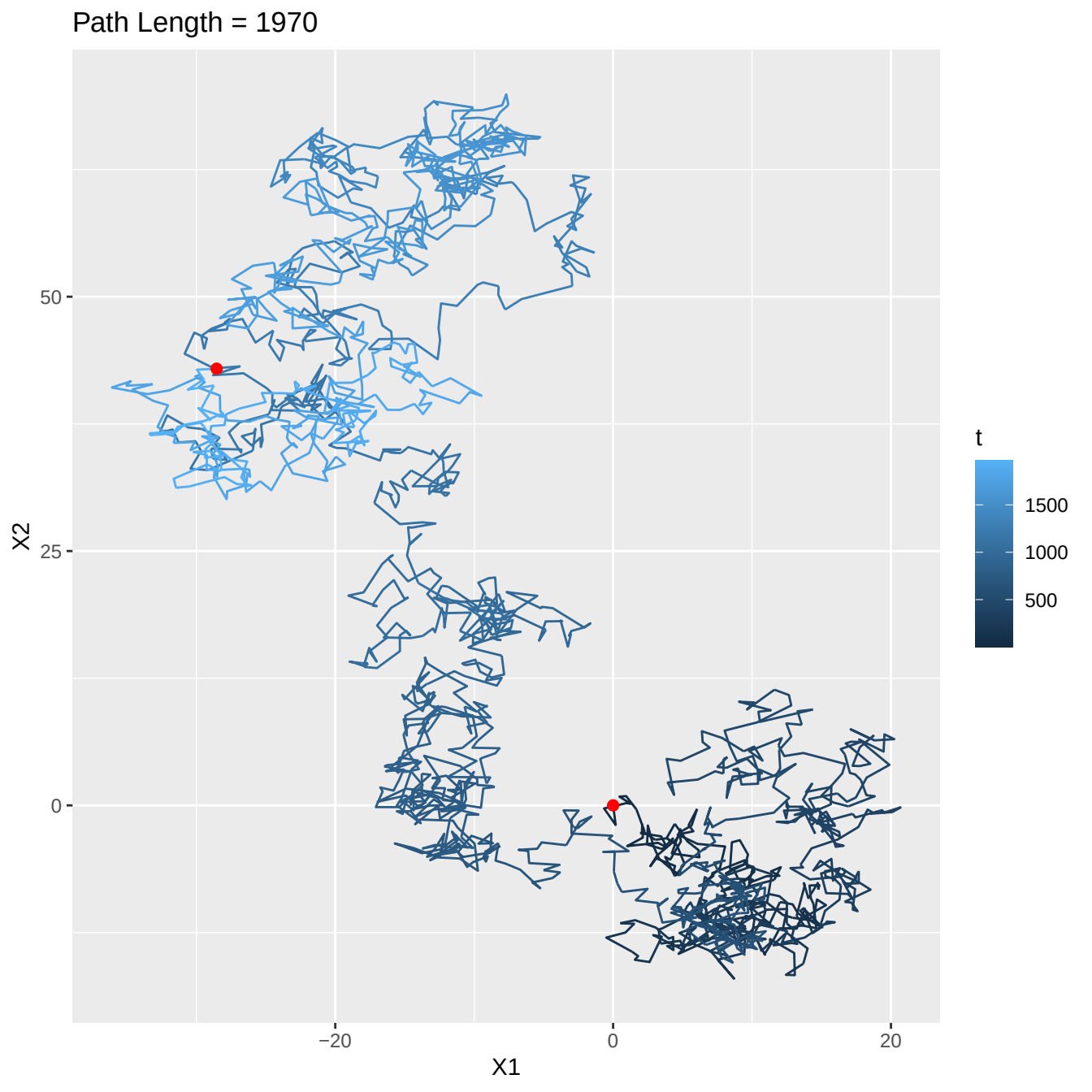
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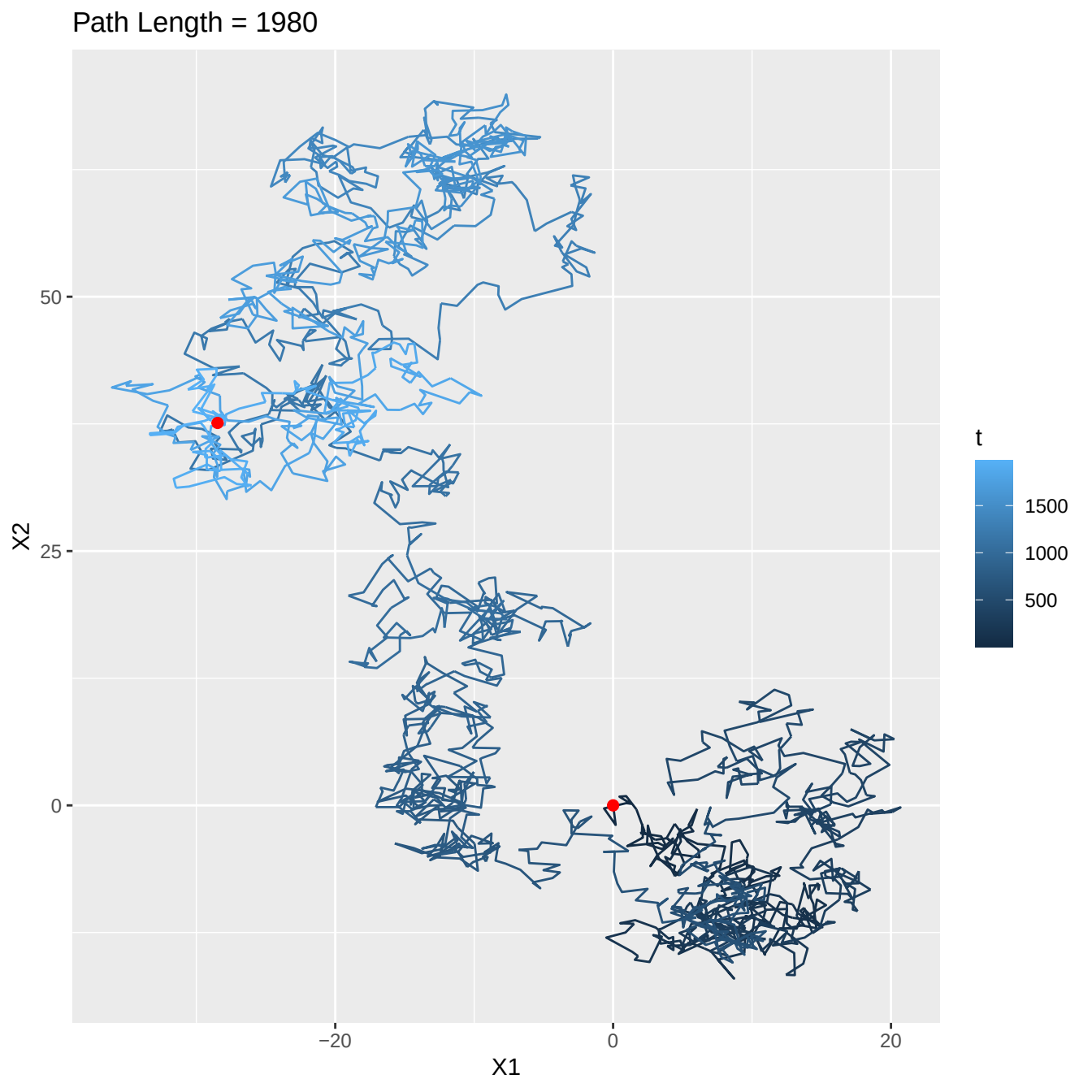
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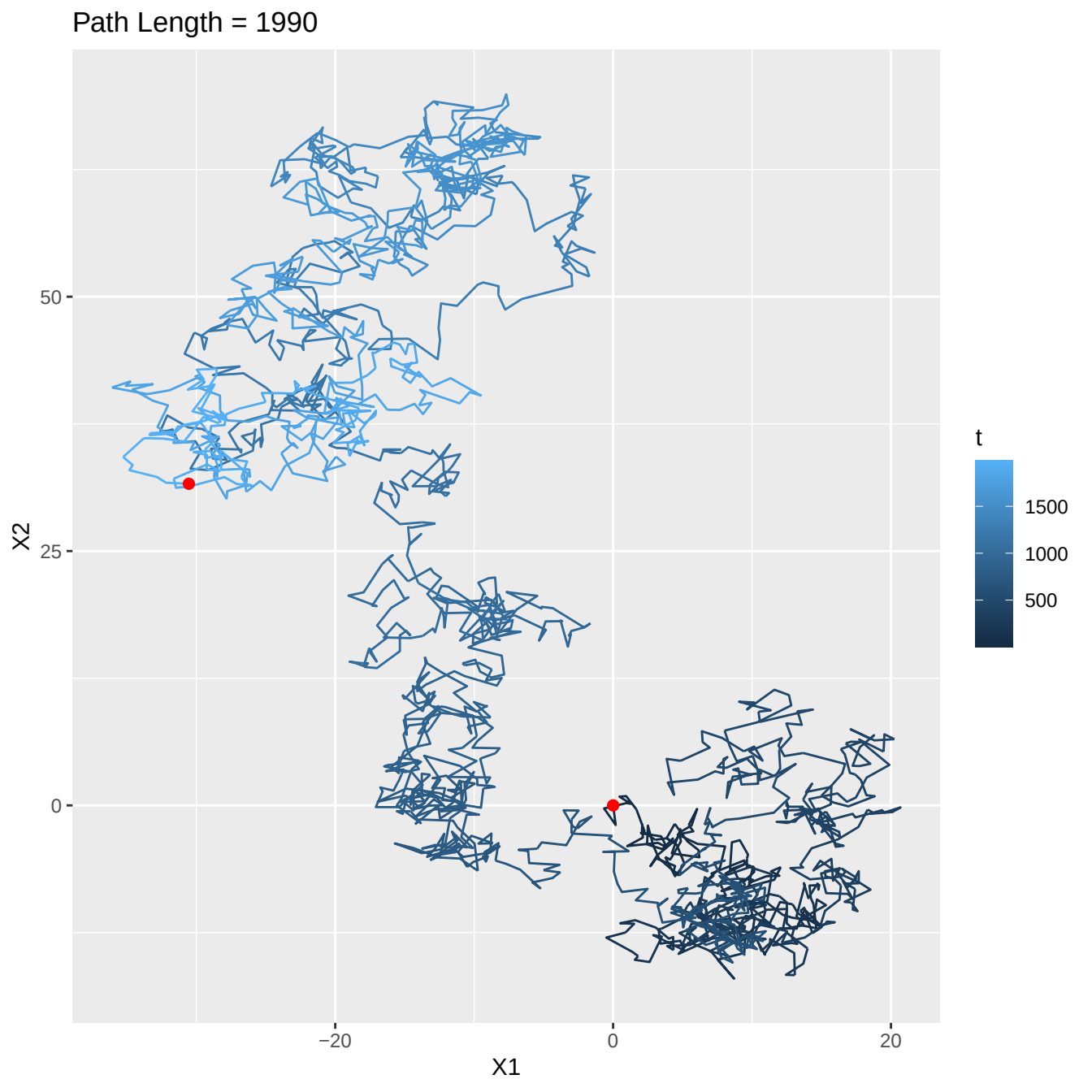
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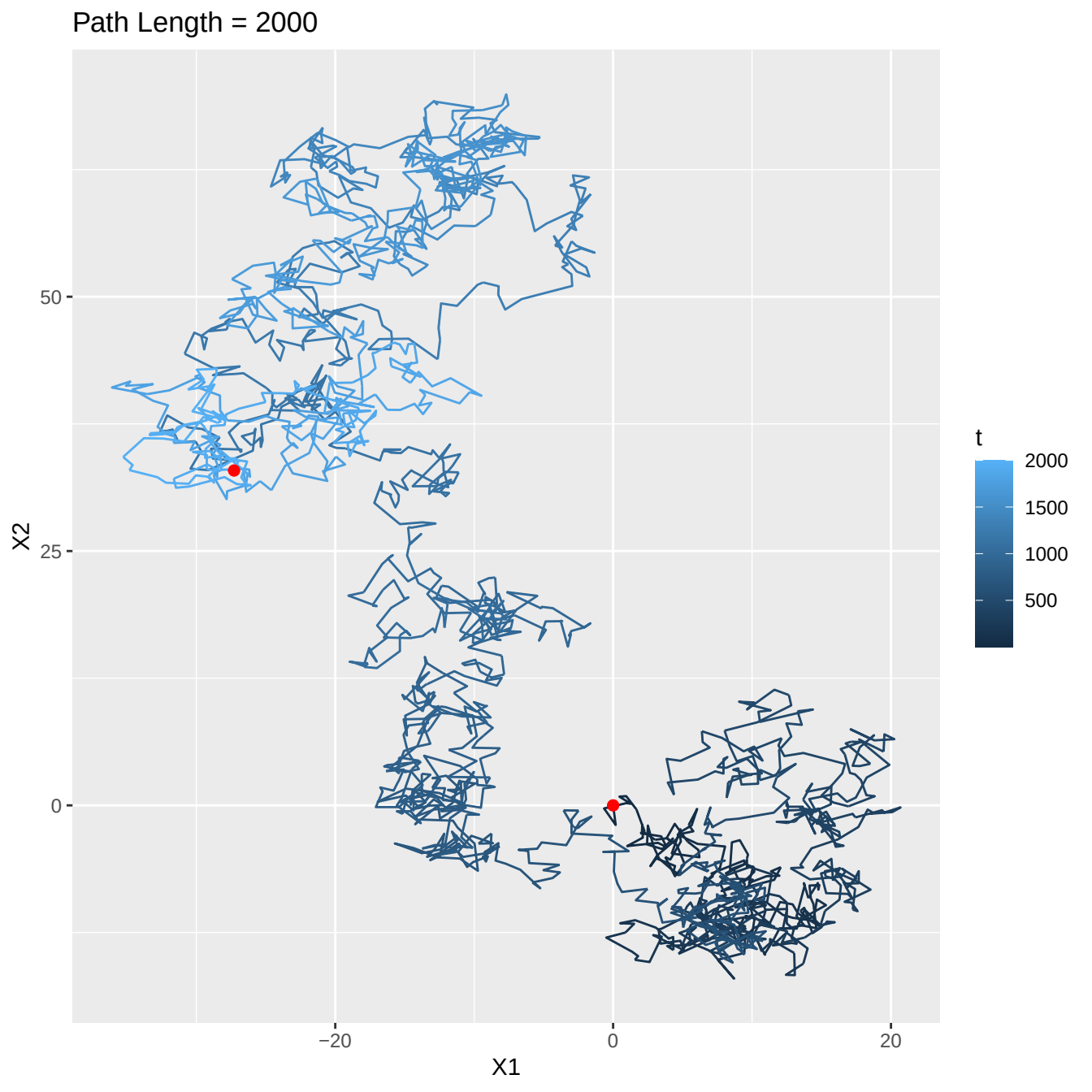
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18.642 Topics in Mathematics with Applications in Finance

Fall 2024

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