

The square is mapped into the interval [0, 1]

Coordinate on Space-filling Curve

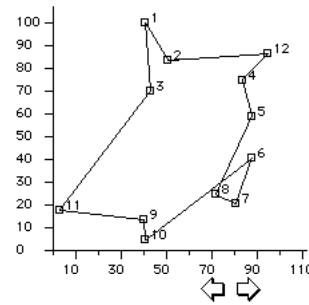
i	Xi	Yi	Position
1	41	100	0.18236921
2	51	84	0.45818231
3	43	70	0.13481542
4	84	75	0.52611921
5	88	59	0.55589939
6	88	41	0.80589939
7	81	21	0.77961296
8	72	25	0.71850459
9	40	14	0.96073832
10	41	5	0.93535641
11	3	18	0.02027783
12	95	87	0.51850270

Sort the points:

i	Xi	Yi	Position
1	41	100	0.18236921
2	51	84	0.45818231
3	43	70	0.13481542
4	84	75	0.52611921
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i	Position
11	0.02027783
3	0.13481542
1	0.18236921
2	0.45818231
12	0.51850270
4	0.52611921
5	0.55589939
8	0.71850459
7	0.77961296
6	0.80589939
10	0.93535641
9	0.96073832

Space-filling-curve tour: 1 2 12 4 5 8 7 6 10 9 11 3 1 with length 365



This determines the order in which cities are visited...

The space-filling curve has been suggested as a "low-technology" algorithm...

- 1) Find location on map and read (x,y) coordinates
- 2) Find (x,y) in table giving position
- 3) Prepare card with (x,y) and position, and insert into card file according to the position
- 4) The sorted cards give a tour.

"A Minimal Technology Routing System for Meals on Wheels", Interfaces, June 1983 (Volume 13, no. 2), by J. Bartholdi et al.