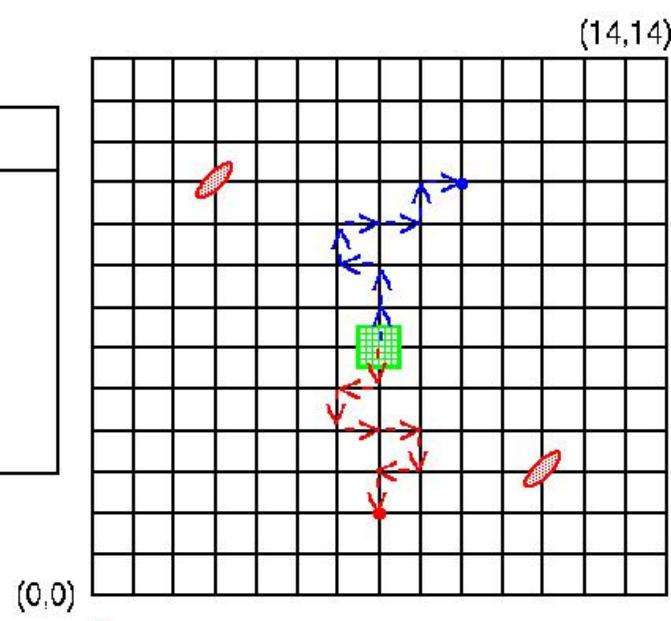


Make the following simulation by hand

1. 6 dogs start from (7,7)
2. Create 6 random chromosomes with 8 genes 1,2,3 or 4 to determine the route
3. Original fitness f_j is $8 - \{ \text{distance from the dog's final position and the nearest sausage} \}$.
4. Draw the routes of all 6 dogs like the right Fig.
5. Calculate Shared Fitness with $\sigma = 3$ F_j

E.g.

random chromosomes	f_i	F_i
(3,2,3,4,4,3,2,3)	3	
(1,1,2,1,4,4,1,4)	2	
(2,1,3,2,3,1,2,1)		
(4,3,1,2,4,2,2,1)		
(3,2,4,1,3,1,4,2)		
(1,2,4,2,1,2,3,3)		



2nd generation

random chromosomes	f_i	F_i

