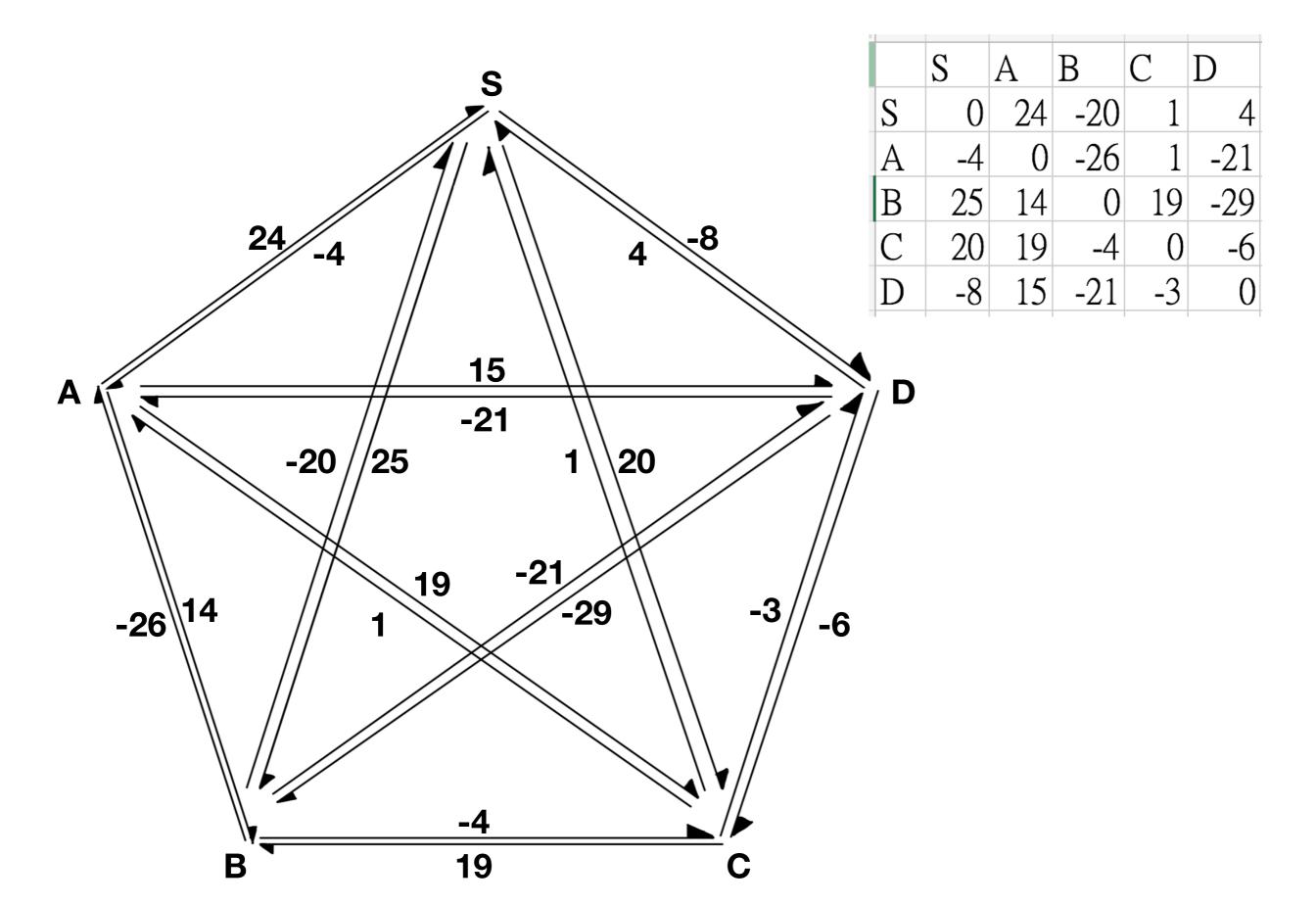
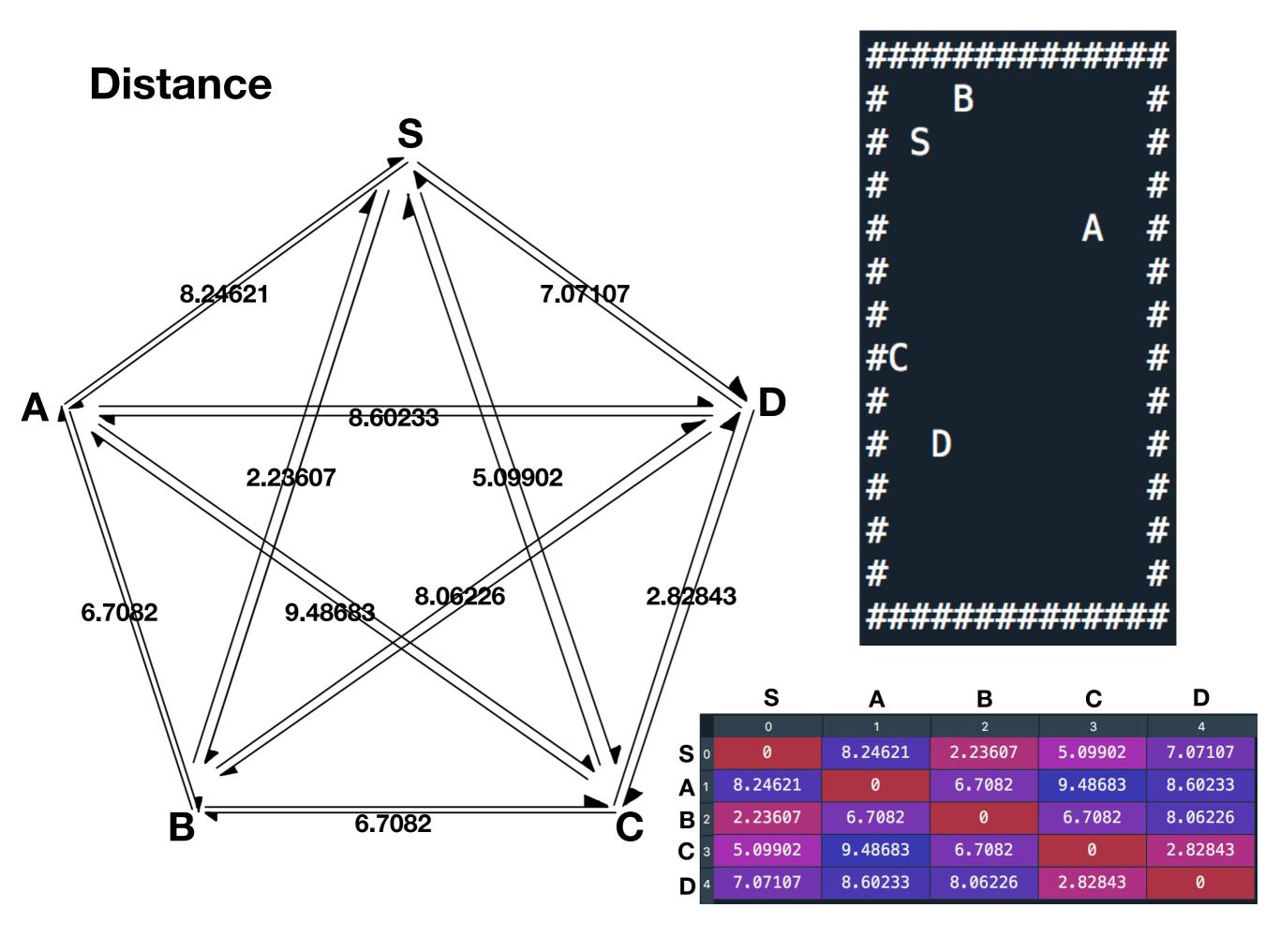
Simulation data set

Social score

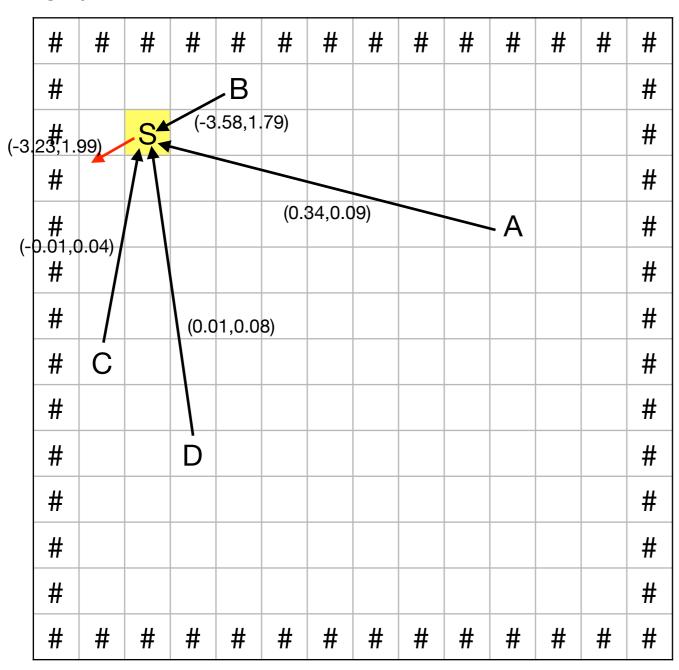




Force $F = \frac{g_{social}}{distance^2}$ 0.35 -0.16 -0.06 0.08 0.2 -0.28 \0.77 0.04 -0.32 0.21 -0.58\\0.31 -0.38/ -0.45 0.01 -0.75 Α C S В D -0.09 S 0.352941 -4 0.0384615 0.08 nan 0.42 B -0.05882... -0.283784 nan -0.5777780.0111111 Α -0.446154 5 0.311111 0.42222 В nan C 0.769231 -0.75 0.211111 -0.08888... nan -0.16 0.202703 -0.323077-0.375D nan

Force vector





$$\overrightarrow{F}_{j res} = \sum_{i=S,A,B,C,D} \overrightarrow{F}_{i}$$

$$|F_i| = \frac{g_{social}}{distance_{ij}^2}$$

$$\theta = tan^{-1} \frac{\delta y_{ij}}{\delta x_{ij}}$$

Force vector

t=2

#	#	#	#	#	#	#	#	#	#	#	#	#	#
#			В	B									#
#		S											#
#	S												#
#										A→	Α		#
#													#
#	C												#
#	Ç												#
#													#
#			D										#
#			D										#
#													#
#													#
#	#	#	#	#	#	#	#	#	#	#	#	#	#

$$\overrightarrow{F}_{j res} = \sum_{i=S,A,B,C,D} \overrightarrow{F}_{i}$$

$$|F_i| = \frac{g_{social}}{distance_{ij}^2}$$

$$\theta = tan^{-1} \frac{\delta y_{ij}}{\delta x_{ij}}$$

	0	1
0	-0.851337	0.524619
1	0.794231	0.111225
2	-0.882165	0.47094
3	-0.169649	-0.985505
4	0.412666	0.62632