dynamic simu.

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	A	B	C	D	E	F
1		S	A	B	C	D
2	S	0	24	-20	1	4
3	A	-4	0	-26	1	-21
4	B	25	14	0	19	-29
5	C	20	19	-4	0	-6
6	D	-8	15	-21	-3	0
7						

- steps

eg. $\left.\begin{array}{l} A\ (1,7) \\ B\ (3,5) \end{array}\right\}$ steps $(A,B) = abs\ (3-1) + abs\ (5-7)$

$= 4$

step X = 2   step y = 2

- energy = social score – steps

- distance $= \sqrt{x^2 + y^2}$

eg. $\left.\begin{array}{l} A\ (1,7) \\ B\ (3,5) \end{array}\right\}$ dist $(A,B) = \sqrt{2^2 + 2^2}$

$= 2\sqrt{2}$

- moving force

moving force X $= \dfrac{\text{step X} \cdot \text{energy}}{dist}$

$$\text{moving force } y = \frac{\overrightarrow{step\, y} \cdot energy}{dist}$$

p.s.

$$\overrightarrow{step\, x}$$

$\overset{\cdot}{c}$ $\xrightarrow{\qquad}$ $\downarrow \overrightarrow{step\, y}$

$\downarrow$

D
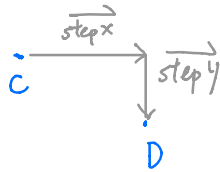
$\dfrac{\overrightarrow{step\, X}}{dist}$ = unit vector.

unit vector · energy represents moving force in X or Y axis

sum of moving force decides how they move.

• how to move

if $\sum$ moving force X   > $\sum$ moving force y

move   X

else

move   y