total # of infected at time t

time

1						7																					
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
1							7																					
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
1							13																					
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19									
2							10						1															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19									
4	5						14			14			6															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19									
7	12				8	2	16			17			4	4														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19									
13	4	17	3	5	14	10	15	13		1		3	16	4		9	3											
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19									
16	13	4	17	12	16	3	11																					
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19									
17																												
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28

time

0

1

who gets infected
eg at time t=2, person 7 infects person 13.

data collected:

time	# infected
0	1
1	1
2	2
3	4
4	7
5	13
6	16
7	17

now everyone's infected.
noone ever recovers!