

Versuch zu Übung 1.

Aufgabe 4

	N (anz Knoten)	M (anz Kanten)	C	Initiator- Knoten	Anz Glauben	Anz Glauben nicht	% glauben
1.	13	19	2	9	11	2	0,846153846153846
2.	13	19	3	9	3	10	0,230769230769231
3.	13	29	2	6	12	1	0,923076923076923
4.	13	29	3	6	10	3	0,769230769230769
5.	13	29	5	6	5	8	0,384615384615385
6.	18	27	2	15	12	6	0,666666666666667
7.	18	27	3	15	6	12	0,333333333333333
8.	18	27	5	15	2	16	0,111111111111111
9.	18	27	6	15	1	17	0,055555555555556
10.	18	36	4	6	7	11	0,388888888888889
11.	18	36	2	6	17	1	0,944444444444444
12.	18	36	2	1	18	0	1
13.	27	28	2	2	5	22	0,185185185185185
14.	27	35	2	27	15	12	0,555555555555556
15.	27	42	2	3	16	11	0,592592592592593
16.	27	49	2	3	25	2	0,925925925925926
17.	27	49	3	3	16	11	0,592592592592593
18.	51	130	3	12	42	9	0,823529411764706
19.	51	130	5	12	22	29	0,431372549019608
20.	51	130	4	12	30	21	0,588235294117647

LESEBESCHREIBUNG:

<Knoten-Id> # repräsentiert Knoten zu den folgenden Attributen

→ Rumor: <gehörtes/verbreitetes Gerücht>

→ Rumor heard: <Anzahl erhaltener Nachrichten mit dem Gerücht>

→ believe: <True [wenn Gerücht geglaubt wird] / False [wenn Gerücht nicht geglaubt wird] >
[is Initiator: True /False]

Versuch 1

1 --> Rumor: 9 -> Rumor heard: 2 -> believe: True [is Initiator: False]
2 --> Rumor: 9 -> Rumor heard: 5 -> believe: True [is Initiator: False]
4 --> Rumor: 9 -> Rumor heard: 2 -> believe: True [is Initiator: False]
3 --> Rumor: 9 -> Rumor heard: 2 -> believe: True [is Initiator: False]
6 --> Rumor: 9 -> Rumor heard: 2 -> believe: True [is Initiator: False]
5 --> Rumor: 9 -> Rumor heard: 2 -> believe: True [is Initiator: False]
7 --> Rumor: 9 -> Rumor heard: 2 -> believe: True [is Initiator: False]
8 --> Rumor: 9 -> Rumor heard: 3 -> believe: True [is Initiator: False]
10 --> Rumor: 9 -> Rumor heard: 2 -> believe: True [is Initiator: False]
9 --> Rumor: 9 -> Rumor heard: 0 -> believe: True [is Initiator: True]
12 --> Rumor: 9 -> Rumor heard: 2 -> believe: True [is Initiator: False]
13 --> Rumor: 9 -> Rumor heard: 1 -> believe: False [is Initiator: False]
11 --> Rumor: 9 -> Rumor heard: 1 -> believe: False [is Initiator: False]

Versuch 2

2 --> Rumor: 1 -> Rumor heard: 5 -> believe: True [is Initiator: False]
1 --> Rumor: 1 -> Rumor heard: 2 -> believe: False [is Initiator: False]
3 --> Rumor: 1 -> Rumor heard: 2 -> believe: False [is Initiator: False]
4 --> Rumor: 1 -> Rumor heard: 2 -> believe: False [is Initiator: False]
5 --> Rumor: 1 -> Rumor heard: 2 -> believe: False [is Initiator: False]
6 --> Rumor: 1 -> Rumor heard: 2 -> believe: False [is Initiator: False]
7 --> Rumor: 1 -> Rumor heard: 2 -> believe: False [is Initiator: False]
9 --> Rumor: 1 -> Rumor heard: 0 -> believe: True [is Initiator: True]
8 --> Rumor: 1 -> Rumor heard: 3 -> believe: True [is Initiator: False]
10 --> Rumor: 1 -> Rumor heard: 2 -> believe: False [is Initiator: False]
11 --> Rumor: 1 -> Rumor heard: 1 -> believe: False [is Initiator: False]
12 --> Rumor: 1 -> Rumor heard: 2 -> believe: False [is Initiator: False]
13 --> Rumor: 1 -> Rumor heard: 1 -> believe: False [is Initiator: False]

Versuch 3

1 --> Rumor: 5 -> Rumor heard: 4 -> believe: True [is Initiator: False]
2 --> Rumor: 5 -> Rumor heard: 4 -> believe: True [is Initiator: False]
3 --> Rumor: 5 -> Rumor heard: 1 -> believe: False [is Initiator: False]
4 --> Rumor: 5 -> Rumor heard: 2 -> believe: True [is Initiator: False]
5 --> Rumor: 5 -> Rumor heard: 3 -> believe: True [is Initiator: False]
7 --> Rumor: 5 -> Rumor heard: 5 -> believe: True [is Initiator: False]
6 --> Rumor: 5 -> Rumor heard: 1 -> believe: True [is Initiator: True]
8 --> Rumor: 5 -> Rumor heard: 2 -> believe: True [is Initiator: False]
9 --> Rumor: 5 -> Rumor heard: 4 -> believe: True [is Initiator: False]
10 --> Rumor: 5 -> Rumor heard: 6 -> believe: True [is Initiator: False]
11 --> Rumor: 5 -> Rumor heard: 6 -> believe: True [is Initiator: False]
12 --> Rumor: 5 -> Rumor heard: 5 -> believe: True [is Initiator: False]
13 --> Rumor: 5 -> Rumor heard: 4 -> believe: True [is Initiator: False]

Versuch 9

1 --> Rumor: 7 -> Rumor heard: 1 -> believe: False [is Initiator: False]
2 --> Rumor: 7 -> Rumor heard: 3 -> believe: False [is Initiator: False]
3 --> Rumor: 7 -> Rumor heard: 1 -> believe: False [is Initiator: False]
4 --> Rumor: 7 -> Rumor heard: 2 -> believe: False [is Initiator: False]
5 --> Rumor: 7 -> Rumor heard: 1 -> believe: False [is Initiator: False]
6 --> Rumor: 7 -> Rumor heard: 4 -> believe: False [is Initiator: False]
7 --> Rumor: 7 -> Rumor heard: 2 -> believe: False [is Initiator: False]
10 --> Rumor: 7 -> Rumor heard: 1 -> believe: False [is Initiator: False]
9 --> Rumor: 7 -> Rumor heard: 5 -> believe: False [is Initiator: False]
8 --> Rumor: 7 -> Rumor heard: 1 -> believe: False [is Initiator: False]
11 --> Rumor: 7 -> Rumor heard: 2 -> believe: False [is Initiator: False]
12 --> Rumor: 7 -> Rumor heard: 4 -> believe: False [is Initiator: False]
13 --> Rumor: 7 -> Rumor heard: 1 -> believe: False [is Initiator: False]
15 --> Rumor: 7 -> Rumor heard: 0 -> believe: True [is Initiator: True]
14 --> Rumor: 7 -> Rumor heard: 3 -> believe: False [is Initiator: False]
16 --> Rumor: 7 -> Rumor heard: 2 -> believe: False [is Initiator: False]
17 --> Rumor: 7 -> Rumor heard: 2 -> believe: False [is Initiator: False]
18 --> Rumor: 7 -> Rumor heard: 2 -> believe: False [is Initiator: False]

Versuch 10

1 --> Rumor: 8 -> Rumor heard: 6 -> believe: True [is Initiator: False]
3 --> Rumor: 8 -> Rumor heard: 3 -> believe: False [is Initiator: False]
4 --> Rumor: 8 -> Rumor heard: 2 -> believe: False [is Initiator: False]
2 --> Rumor: 8 -> Rumor heard: 1 -> believe: False [is Initiator: False]
5 --> Rumor: 8 -> Rumor heard: 5 -> believe: True [is Initiator: False]
6 --> Rumor: 8 -> Rumor heard: 0 -> believe: True [is Initiator: True]
7 --> Rumor: 8 -> Rumor heard: 2 -> believe: False [is Initiator: False]
8 --> Rumor: 8 -> Rumor heard: 4 -> believe: True [is Initiator: False]
9 --> Rumor: 8 -> Rumor heard: 3 -> believe: False [is Initiator: False]
11 --> Rumor: 8 -> Rumor heard: 3 -> believe: False [is Initiator: False]
10 --> Rumor: 8 -> Rumor heard: 2 -> believe: False [is Initiator: False]
12 --> Rumor: 8 -> Rumor heard: 3 -> believe: False [is Initiator: False]
14 --> Rumor: 8 -> Rumor heard: 4 -> believe: True [is Initiator: False]
13 --> Rumor: 8 -> Rumor heard: 3 -> believe: False [is Initiator: False]
17 --> Rumor: 8 -> Rumor heard: 3 -> believe: False [is Initiator: False]
16 --> Rumor: 8 -> Rumor heard: 4 -> believe: True [is Initiator: False]
15 --> Rumor: 8 -> Rumor heard: 4 -> believe: True [is Initiator: False]
18 --> Rumor: 8 -> Rumor heard: 3 -> believe: False [is Initiator: False]

Versuch 17

1 --> Rumor: 6 -> Rumor heard: 3 -> believe: True [is Initiator: False]
2 --> Rumor: 6 -> Rumor heard: 3 -> believe: True [is Initiator: False]
4 --> Rumor: 6 -> Rumor heard: 5 -> believe: True [is Initiator: False]
3 --> Rumor: 6 -> Rumor heard: 0 -> believe: True [is Initiator: True]
6 --> Rumor: 6 -> Rumor heard: 3 -> believe: True [is Initiator: False]
7 --> Rumor: 6 -> Rumor heard: 3 -> believe: True [is Initiator: False]
5 --> Rumor: 6 -> Rumor heard: 2 -> believe: False [is Initiator: False]
8 --> Rumor: 6 -> Rumor heard: 3 -> believe: True [is Initiator: False]
9 --> Rumor: 6 -> Rumor heard: 2 -> believe: False [is Initiator: False]
10 --> Rumor: 6 -> Rumor heard: 5 -> believe: True [is Initiator: False]
12 --> Rumor: 6 -> Rumor heard: 4 -> believe: True [is Initiator: False]
11 --> Rumor: 6 -> Rumor heard: 3 -> believe: True [is Initiator: False]
14 --> Rumor: 6 -> Rumor heard: 2 -> believe: False [is Initiator: False]
13 --> Rumor: 6 -> Rumor heard: 1 -> believe: False [is Initiator: False]
16 --> Rumor: 6 -> Rumor heard: 2 -> believe: False [is Initiator: False]
15 --> Rumor: 6 -> Rumor heard: 2 -> believe: False [is Initiator: False]
17 --> Rumor: 6 -> Rumor heard: 2 -> believe: False [is Initiator: False]
18 --> Rumor: 6 -> Rumor heard: 4 -> believe: True [is Initiator: False]
19 --> Rumor: 6 -> Rumor heard: 1 -> believe: False [is Initiator: False]
20 --> Rumor: 6 -> Rumor heard: 4 -> believe: True [is Initiator: False]
21 --> Rumor: 6 -> Rumor heard: 3 -> believe: True [is Initiator: False]
23 --> Rumor: 6 -> Rumor heard: 1 -> believe: False [is Initiator: False]
22 --> Rumor: 6 -> Rumor heard: 2 -> believe: False [is Initiator: False]
24 --> Rumor: 6 -> Rumor heard: 3 -> believe: True [is Initiator: False]
25 --> Rumor: 6 -> Rumor heard: 3 -> believe: True [is Initiator: False]
26 --> Rumor: 6 -> Rumor heard: 2 -> believe: False [is Initiator: False]
27 --> Rumor: 6 -> Rumor heard: 4 -> believe: True [is Initiator: False]

Versuch 18

[illegible]

Versuch 19

[illegible]

Versuch 20

[illegible]