

## Exercise sheet 9

### Exercise 1

Step	Test case																		Test	
0		x	x	m	x	o	x	n	x	t	x	x	a	x	g	x	x	FAIL		
1	cx-c2	x	x	m	x	o	x	n	x	.	.	.	.	.	.	.	.	PASS	Testing cx-c1 and cx-c2. (n=2)	
2	cx-c1	.	.	.	.	.	.	.	.	t	x	x	a	x	g	x	x	PASS	Increase granularity (n=4)	
3	c1	x	x	m	x	.	.	.	.	.	.	.	.	.	.	.	.			
4	c2	.	.	.	.	o	x	n	x	.	.	.	.	.	.	.	.			
5	c3	.	.	.	.	.	.	.	.	t	x	x	a	.	.	.	.			
6	c4	.	.	.	.	.	.	.	.	.	.	.	.	.	x	g	x	x		
7	cx-c1	.	.	.	.	o	x	n	x	t	x	x	a	x	g	x	x	PASS	Testing cx-c1,...,cx-c4 (n=4) Note the <b>difference between the algorithm presented in the lecture and the original one from the paper of Zeller</b> . In the algorithm from the lecture we do not separately test every ci, but directly move on to checking their complements, i.e., cx-ci. Here we show the values of considered ci's only for the sake of completeness.	
8	cx-c2	x	x	m	x	.	.	.	.	t	x	x	a	x	g	x	x	PASS		
9	cx-c3	x	x	m	x	o	x	n	x	.	.	.	.	x	g	x	x	PASS		
10	cx-c4	x	x	m	x	o	x	n	x	t	x	x	a	.	.	.	.	PASS	Increase granularity	
11	c1	x	x	.	.	.	.	.	.	.	.	.	.	.	.	.	.			
12	c2	.	.	m	x	.	.	.	.	.	.	.	.	.	.	.	.			
13	c3	.	.	.	.	o	x	.	.	.	.	.	.	.	.	.	.			
14	c4	.	.	.	.	.	.	n	x	.	.	.	.	.	.	.	.			
15	c5	.	.	.	.	.	.	.	.	t	x	.	.	.	.	.	.			
16	c6	.	.	.	.	.	.	.	.	.	.	.	x	a	.	.	.			
17	c7	.	.	.	.	.	.	.	.	.	.	.	.	.	x	g	.			
18	c8	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	x	x		
19	cx-c1	.	.	m	x	o	x	n	x	t	x	x	a	x	g	x	x	FAIL	Testing cx-c1,...,cx-c8 (n=8). Reduce to cx=cx-c1; continue with n=7	
20	c1			m	x	.	.	.	.	.	.	.	.	.	.	.	.			



48	c8		.	.	.	.	.	.	.	.	.	x	.	.	.	.		
49	c9		.	.	.	.	.	.	.	.	.	.	x	.	.	.		
50	c10		.	.	.	.	.	.	.	.	.	.	.	a	.	.		
46	c11		.	.	.	.	.	.	.	.	.	.	.	.	x	.		
47	c12		.	.	.	.	.	.	.	.	.	.	.	.	.	g		
48	cx-c1		.	x	o	x	n	x	t	x	x	a	x	g			PASS	Testing cx-c1,...,cx-c12 (n=12)
49	cx-c2		m	.	o	x	n	x	t	x	x	a	x	g			FAIL	Reduce to cx=cx-c2; continue with n=11
50	c1		m	.	.	.	.	.	.	.	.	.	.	.	.	.		
51	.....																	
...	cx-c3		m	.	o	.	n	x	t	x	x	a	x	g			FAIL	Reduce cx=cx-c3; continue with n=10
			m	.	o	.	n	x	t	x	x	a	x	g				FINAL result

## Exercise 2

See an attached file on the homepage.