Part 1

To be safe, all reports must be ascending or descending with a distance between two adjacent levels between 1 and 3.

Parsed reports	The two validity checks	Safe reports
(	(	(
(7, 6, 4, 2, 1),	(sorted: true, differ: true),	✅
(1, 2, 7, 8, 9),	(sorted: true, differ: false),	❌
(9, 7, 6, 2, 1), ∿	(sorted: true, differ: false), ∿	❌
(1, 3, 2, 4, 5),	(sorted: false, differ: true),	❌
(8, 6, 4, 4, 1),	(sorted: true, differ: false),	❌
(1, 3, 6, 7, 9),	(sorted: true, differ: true),	✅
)	)	)

∿ In total there are **2** safe reports.

Part 2

The same rules as above still apply, but now one level entry can be removed if it makes the report safe.

Damped variants	Validity check for each variant	Safe reports
(	(	(
(	(	✅
(7, 6, 4, 2, 1),	(sorted: true, differ: true),	❌
(6, 4, 2, 1),	(sorted: true, differ: true),	❌
(7, 4, 2, 1),	(sorted: true, differ: true),	✅
(7, 6, 2, 1),	(sorted: true, differ: false),	✅
(7, 6, 4, 1),	(sorted: true, differ: true),	✅
(7, 6, 4, 2),	(sorted: true, differ: true),	)
),	),	
(	(	
(1, 2, 7, 8, 9),	(sorted: true, differ: false),	
(2, 7, 8, 9),	(sorted: true, differ: false),	
(1, 7, 8, 9),	(sorted: true, differ: false),	
(1, 2, 8, 9),	(sorted: true, differ: false),	
(1, 2, 7, 9),	(sorted: true, differ: false),	
(1, 2, 7, 8),	(sorted: true, differ: false),	
),	),	
(	(	
(9, 7, 6, 2, 1),	(sorted: true, differ: false),	
(7, 6, 2, 1),	(sorted: true, differ: false),	
(9, 6, 2, 1),	(sorted: true, differ: false),	
(9, 7, 2, 1),	(sorted: true, differ: false),	
(9, 7, 6, 1),	(sorted: true, differ: false),	
(9, 7, 6, 2),	(sorted: true, differ: false),	
), ∿	), ∿	∿
(	(	
(1, 3, 2, 4, 5),	(sorted: false, differ: true),	
(3, 2, 4, 5),	(sorted: false, differ: true),	
(1, 2, 4, 5),	(sorted: true, differ: true),	
(1, 3, 4, 5),	(sorted: true, differ: true),	
(1, 3, 2, 5),	(sorted: false, differ: true),	
(1, 3, 2, 4),	(sorted: false, differ: true),	
),	),	
(	(	
(8, 6, 4, 4, 1),	(sorted: true, differ: false),	
(6, 4, 4, 1),	(sorted: true, differ: false),	
(8, 4, 4, 1),	(sorted: true, differ: false),	
(8, 6, 4, 1),	(sorted: true, differ: true),	
(8, 6, 4, 1),	(sorted: true, differ: true),	
(8, 6, 4, 4),	(sorted: true, differ: false),	
),	),	
(	(	
(1, 3, 6, 7, 9),	(sorted: true, differ: true),	
(3, 6, 7, 9),	(sorted: true, differ: true),	
(1, 6, 7, 9),	(sorted: true, differ: false),	
(1, 3, 7, 9),	(sorted: true, differ: false),	
(1, 3, 6, 9),	(sorted: true, differ: true),	
(1, 3, 6, 7),	(sorted: true, differ: true),	
),	),	
)	)	

∿ In total there are **4** safe reports.