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.