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1. (8 marks) Create a file unionAll.pl.

Write predicate

union(List,List2,Result). This predicate union List1 (input) and List2 (input) to form Result
(output). You must write this predicate from scratch. No pre-built union is allowed.

Test cases (1 mark each) are (we do not type ";" in the queries):

The order of numbers does not have to be the same as in the tests below.

?- union([],[1,2,3],R).	?- union([1,4,2,5,6,3],[4,1,5,2,6,3],L).
R = [1, 2, 3].	L = [4, 1, 5, 2, 6, 3] .
?- union([2,11,7,9,1],[2,3,9],R).	?- union([6,1,4,2],[7,5,2,6,0],L).
R = [11, 7, 1, 2, 3, 9].	L = [1, 4, 7, 5, 2, 6, 0] .

unionAll(List of Lists, Result). This predicate union all lists from List of Lists (input) together to form Result (output).

Test cases (1 mark each) are (we do not type ";" in the queries):

The order of numbers does not have to be the same as in the tests below.

?- unionAll([[]],R). R = [] .	?- unionAll([[3,1],[6,2,88],[2,3,4,11],[7,6,5]],R). R = [1, 88, 2, 3, 4, 11, 7, 6, 5].
?- unionAll([[1,2,3],[],[2,3,4],[]],R). R = [1, 2, 3, 4].	
?- unionAll([[5,1,2],[6,2,3],[2,3,4,5]],R). R = [1, 6, 2, 3, 4, 5]; false.	

How to submit

Submit unionAll.pl in MyCourseville.