

M E R G E S O R T

1. mergesort([],[]) :- !.
2. mergesort([X], [X]) :- !.
3. mergesort(L, SL) :- dvd(L, L1, L2),
mergesort(L1, SL1), mergesort(L2, SL2),
merge(SL1, SL2, SL).
4. dvd([], [], []) :- !.
5. dvd([X], [X], []) :- !.
6. dvd([X,Y | Z], [X | L1], [Y | L2]) :-
dvd(Z, L1, L2).
7. merge([], [], []) :- !.
8. merge(L, [], L) :- !.
9. merge([], L, L) :- !.
10. merge([X | L1], [Y | L2], [X | L]) :-
X < Y, !, merge(L1, [Y | L2], L).
11. merge([X | L1], [Y | L2], [Y | L]) :-
merge([X | L1], L2, L).