% "Hello World" in Mercury.

:- module hello.

:- interface.

:- import\_module io.

:- pred main(io::di, io::uo) is det.

:- implementation.

main(!IO) :-

io.write\_string("Hello, world\n", !IO).

:- pred filter(pred(T), list(T), list(T), list(T) ).

:- mode filter(in(pred(in) is semidet), in, out, out ) is det.

filter(\_, [], [], []).

filter(P, [X | Xs], Ys, Zs) :-

filter(P, Xs, Ys0, Zs0),

( if P(X) then Ys = [X | Ys0], Zs = Zs0

else Ys = Ys0 , Zs = [X | Zs0]

).