```
Non-procedural Programming Language
2015/06/17
09425566 佐藤 佑太
5.1.2
(* padd.sml *)
(* 再帰で使うときは rec をつける *)
val rec padd = fn (P, nil) => P
                | (nil, Q) => Q
                | ((P:real)::ps, q::qs) => (P+q)::padd(ps,qs);
(* smult.sml *)
val rec smult = fn (nil, q) \Rightarrow nil
                 | ((p:real)::ps, q) => (p*q)::smult(ps, q);
(* pmult *)
val rec pmult = fn (P, nil) => nil
                 | (P, q::qs) => padd(smult(P, q), 0.0::pmult(P, qs));
(* sumPairs.sml *)
val rec sumPairs = fn (nil) => 0
                     | ((x,y)::zs) => x + y + sumPairs(zs);
(* merge.sml *)
val rec merge = fn (nil, M) => M
                 | (L, nil) => L
                 | (L as x::xs, M as y::ys) =>
                     if x<y then x::merge (xs, M)
                     else y::merge(L, ys);
(* comb.sml *)
val rec comb = fn (_, 0) \Rightarrow 1
                \mid (n, m) => if m=n then 1
                             else comb(n-1, m) + comb(n-1, m-1)
```