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A2Q1
Given a list L = [z_1, z_2, ..., z_n] of values, write a Maple procedure makepoly such that makepoly(L,x)
outputs the polynomial (x-z_1)\cdot (x-z_2)\cdot ...\cdot (x-z_n). Test your procedure.
> restart:
> makepoly := proc(L::list,x::name)
         local i,s;
         s := 1;
         for i in L do
               s := s * (x-i);
         od;
         S;
         end;
makepoly := \mathbf{proc}(L::list, x::name)
                                                                                                   (1)
     local i, s; s := 1; for i in L do s := s * (x - i); s end do; s
end proc
> L := [1,2,4,2]
> makepoly(L,x);
> makepoly(L,y);
                                         L := [1, 2, 4, 2]
                                                                                                   (2)
                                    (x-1) (x-2)^2 (x-4)
                                                                                                   (3)
                                     (y-1) (y-2)^2 (y-4)
                                                                                                   (4)
```