A2Q2

Given a list L of values write a boolean Maple procedure

issorted := proc(L::list) ... end;

that returns true if the elements in L are sorted in ascending order and false otherwise.

```
> restart:
```

```
> issorted := proc(L::list)
      local i;
      for i from 1 to nops(L) do
          if i = nops(L) then
              return true;
          else
              if L[i]> L[i+1] then
                  return false;
              fi;
          fi;
      od;
      end;
```

$$issorted := \mathbf{proc}(L::list) \quad \textbf{(1)}$$

```
    local i;
    for i to nops(L) do
        if i = nops(L) then return true else if L[i + 1] < L[i] then return false end if end if
    end do
end proc
```

```
> L1 := [1,4,3,4,5];
  issorted(L1);
```

$$L1 := [1, 4, 3, 4, 5]$$

$$false \quad \textbf{(2)}$$

```
> L := [-5,1,4,5,9];
  issorted(L);
```

$$L := [-5, 1, 4, 5, 9]$$

$$true \quad \textbf{(3)}$$