Problem 1

output Max

Its ideal to declare a constant variable when the variable is not going to and should not be changed after declaration. Like a constant like pi, or a constant value which is assigned before and not likely to be changed when the program is running, so it can prevent the programmer unexpectedly change the value of the variable.

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Problem 2
(1)
Let indexes of vector A of n numbers be 0 to n-1
Given a vector A of n numbers:
for i from 0 to n-2
     find the larger between Ai and A(i+1)
     put the larger one at A(i+1)
output A(n-1)
(2)
Given a vector A of 10 numbers:
Let Max be A0
for i from 1 to n-1
     if Ai is greater than Max
          Let Max be Ai
output Max
Given a vector A of n integers:
let Max be 0
for i from 0 to n-1
     if Ai is positive
          add 1 to Max
     else
          let Max be 0
```