Question 1:

If the FindMax function finds the result is not the maximum value in the input vector, we assume it is M. And we call the maximum value in the vector is Max. So when the FindMax function [traverse](https://www.youdao.com/w/traverse/" \l "keyfrom=E2Ctranslation) all the input and when it comes to Max, the result is renewed to Max and cannot stay unchanged. That is why the FindMax function always finds the maximum value in the input vector.

Question2:

Github: https://github.com/Yuheng-Zhang

Stackoverflow: <https://stackoverflow.com/users/12744237/yuheng-zhang>

Quesiton3:

runtime:O(1)

Question4:

rm -rf .git:

-r means remove all the files under current directory.

-f means mandatory deletion without reminder.

Question5:

1.O(nlogn)

2.O(logn)

Question6:

Nonrecursive: O(n);

Recursive: O(n);

Base case: if n = 1, res = 1. √

Inductive Step: If n = k is correct, res = k! . Then when n = k+1, res = k! \* (k+1) = (k+1)! √

So the non-recursive version is correct.