Describing an algorithm

English:

"Find the largest number in the list"

Pseudocode:

Let 'max' stand for the first number in the list.
For each number in the list
    if it's bigger than 'max'
        replace the value of 'max' by the larger value

Python:

```python
def findMax(list):
    max = list[0]
    for num in list:
        if num > max:
            max = num
    return max
```

Java:

```java
public static int findMax(int[] list)
{
    int max = list[0];
    for (int num : list)
    {
        if (num > max)
        {
            max = num;
        }
    }
    return max;
}
```

C:

```c
int find_max(int * list, int size)
{
    int max = *list;
    int * pos = list;
    while (pos < list + size)
    {
        if (*pos > max)
        {
            max = *pos;
        }
        ++pos;
    }
    return max;
}
```
Pseudocode for another approach to the same problem:

*If the list has only one number in it, return that number. Otherwise, return the maximum of a) the first number or b) the largest number in the rest of the list.*

Python:

```python
def find_max(list):
    if len(list) == 1:
        return list[0]
    else:
        return max(list[0], find_max(list[1:]))
```

Erlang:

```erlang
findmax([A]) ->
    A;
findmax([A | B]) ->
    max(A, findmax(B)).
```

Clojure:

```clojure
(defn findmax [list]
    (if (= (count list) 1)
        (first list)
        (max (first list) (findmax (rest list))))))
```