Largest Element in a List

I/p: l = [10, 5, 20, 8]

O/p: 20

I/p: l = [30, 30, 20]

O/p: 30

I/p: l = [40]

O/p: 40

print(max(l))

```
def getMax(l):
    for x in l:
        for y in l:
            if y > x:
                break
            else:
                return x
    return None
```

Time complexity: $O(n^2)$

Efficient solution:

```
def getMax(l):
    if not l:
        return None
    else:
        res = l[0]
        for i in range(1, len(l)):
            if l[i] > res:
                res = l[i]
        return res
```

Time complexity: $O(n)$