Esercizio 1

```
range(T, k1, k2)
    range_rec(T.root, k1, k2)

range_rec(x,k1,k2)

if x <> nil
    if x.key >= k1
        range_rec(x.left, k1, k2)

if x.key >= k1 and x.key <= k2
    print x.key

if x.key <= k2
    range_rec(x.right, k1, k2)</pre>
```

Esercizio 2

Soluzione:

```
Max(A, p, r)
   if p = r
      return A[p]
   else // p < r
      q = (p+r)/2
      m1 = Max(A,p,q)
      m2 = Max(A,q+1,r)
      if m1<m2
            return m2
   else
      return m1</pre>
```

Esercizio 3

```
Insert(T, z)
if(T==nil) return nil
x=T.root
y=nil
      //predecessore
p=nil
while (y \iff x)
y = x
if(z.key < x.key)
x=x.left
y=nil
p=x
else
       x=x.right
if y = nil
T.root=z
```