Algo (A, P, r).

if
$$(n=1)$$
 return $(A[n]=n)$ C_2
 $m=\lfloor \frac{p+n}{2} \rfloor$ C_3

if $A[m]=m$ C_4 return true.

Cs.

elso if $(A[m]>m)$ C_6

return $Algo (A, P, m-1)$ $T(\frac{m}{2})$

else return $Algo (A, m+1, r)$ $T(\frac{m}{2})$

can't add all the costs typether! (because of if else-)

 $T(n) = T(\frac{m}{2}) + Q(1)$
 $\Rightarrow a=1, b=2$
 $n = 1$
 $n = 1$

Upper Bound:

 $T(n) \neq (c \cdot lgn) = Q(lgn)$

Upper Bound:

 $T(n) \neq dlgn$ if $d \neq c$

Lower Bound:

 $T(n) \geq dlgn$ if $d \leq c$