```
NEXTPIVOT:
    if pred(u) ≠ s
        return 1
    if pred(v) ≠ s
        d ← s→v
        Δ ← GETSLACK(d*)
    else
        d* ← MINPATHSLACK(o*, p*)
        Δ ← GETSLACK(d*)/2
    if λ + Δ/w(uv) < 1
        PIVOT(d, Δ)
        return λ + Δ/w(uv)
    else
        return 1
```

```
PIVOT(x→y, Δ):
    ⟨⟨Update distances⟩⟩
    if pred(u) = s then ADDSUBTREEDIST(Δ, u)
    if pred(v) = s then ADDSUBTREEDIST(−Δ, v)

    ⟨⟨Update slacks⟩⟩
    ADDPATHSLACK(−Δ, o*, p*)

    ⟨⟨Update primal and dual trees⟩⟩
    z ← pred(y)
    pred(y) ← x
    CUT(zy)
    JOIN(x, y)
    CUT((xy)*)
    JOIN((z→y)*, 0, w(yz))
```