

Inviscid computation  
without boundary layer

$$u_e^0(x)$$

$$k = k + 1$$

Boundary layer  
computation

$$\delta^{*(k+1)} = BL(u_e^k(x))$$

New inviscid computation  
with the flow tangent to the  
displacement surface

$$u_e^{(k+1)} = INV(\delta^{*(k+1)})$$

$$|u_e^{(k+1)} - u_e^k| < \varepsilon$$

No

Yes

Stop

