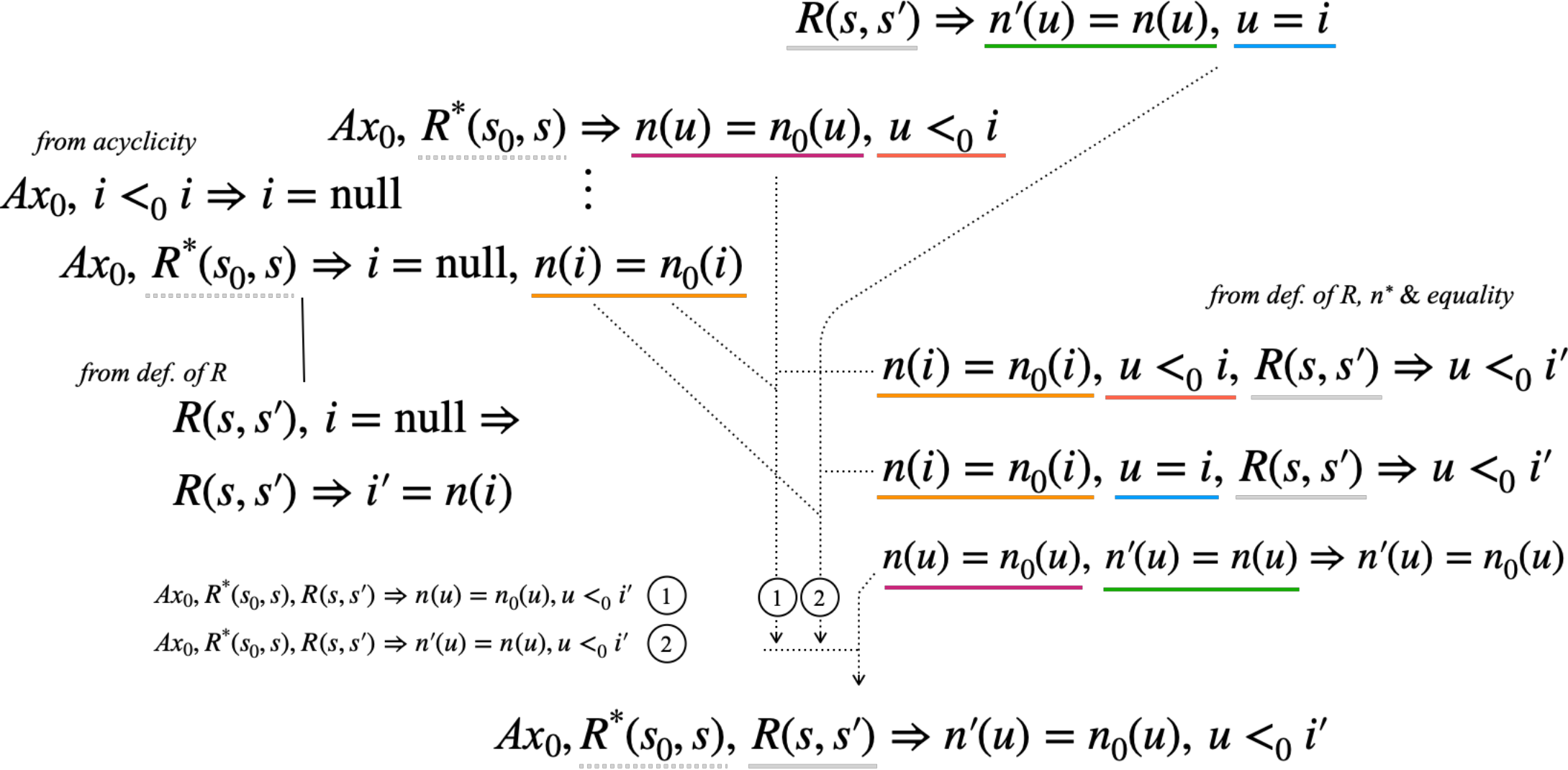
$R(s, s') \Rightarrow n'(u) = n(u),\ u = i$
$Ax_0,\ R^*(s_0, s) \Rightarrow n(u) = n_0(u),\ u <_0 i$
from acyclicity
$Ax_0,\ i <_0 i \Rightarrow i = \text{null}$
$Ax_0,\ R^*(s_0, s) \Rightarrow i = \text{null},\ n(i) = n_0(i)$
from def. of R
$R(s, s'),\ i = \text{null} \Rightarrow$
$R(s, s') \Rightarrow i' = n(i)$
from def. of R, n* & equality
$n(i) = n_0(i),\ u <_0 i,\ R(s, s') \Rightarrow u <_0 i'$
$n(i) = n_0(i),\ u = i,\ R(s, s') \Rightarrow u <_0 i'$
$n(u) = n_0(u),\ n'(u) = n(u) \Rightarrow n'(u) = n_0(u)$
$Ax_0, R^*(s_0, s), R(s, s') \Rightarrow n(u) = n_0(u), u <_0 i'$ 1
$Ax_0, R^*(s_0, s), R(s, s') \Rightarrow n'(u) = n(u), u <_0 i'$ 2
1
2
$Ax_0, R^*(s_0, s), R(s, s') \Rightarrow n'(u) = n_0(u),\ u <_0 i'$