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study(title="Bull/Bear")

len = input(15, minval=1)

DI = change(high)- (-change(low))

trur = rma(tr, len)

trend = fixnan(100 \* rma(DI, len) / trur)

plot(trend, color = trend <= 0 ? red : green, style=area)

length = input(15, minval=1)

smoothK = input(5, minval=1)

ul = input(55, minval=50)

ll = input(45, maxval=50)

st = input(true)

k = sma(stoch(close, high, low, length), smoothK)

uline = ul

lline = ll

col = k >= uline ? green : k <= lline ? red : blue

plot(k, style=line, linewidth=2, color=col)

p1 = plot(uline, style=line, linewidth=2, color=blue)

p2 = plot(100, color=white)

fill(p1, p2, color=green, transp=100)

p3 = plot(lline, style=line, linewidth=2, color=red)

p4 = plot(0, color=white)

fill(p1, p3, color=blue, transp=100)

fill(p3, p4, color=red, transp=100)