

```
function [armsErr_TD,armsErr_MC] = cmpt_arms_err(nTrials,alpha)
%
% Written by:
% --
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% for statistical significance have this many samples for each walk trial:
N_MC_TRAILS = 100;

% the true state value function:
truth = (1:5)/6;

armsErr_TD = zeros(1,nTrials); samps_TD = zeros(1,N_MC_TRAILS);
armsErr_MC = zeros(1,nTrials); samps_MC = zeros(1,N_MC_TRAILS);
for nw=1:nTrials,
    for mi=1:N_MC_TRAILS,
        [Vtd,Vmc] = eg_6_2_learn(nw,alpha);
        samps_TD(mi) = sqrt(mean((Vtd-truth).^2));
        samps_MC(mi) = sqrt(mean((Vmc-truth).^2));
    end
    armsErr_TD(nw) = mean(samps_TD);
    armsErr_MC(nw) = mean(samps_MC);
end
```