$\phi(s_h^c, a_1) = e_c$
$\phi(s_h^c, a_2) = e_{c+\hat{d}}$
$\phi\left(s_h^{\hat{d}+1}, a\right) = (e_1 + e_2 + \cdots + e_{\hat{d}})/\hat{d}^{1/2}$