$\mathbf{A} \\ W = V\Lambda V^{-1} = \begin{bmatrix} v_1 \\ v_2 \\ v_3 \\ v_4 \end{bmatrix}^\top \begin{bmatrix} \lambda_{1,1} & \lambda_{1,2} & \lambda_{1,3} & \lambda_{1,4} \\ 0 & \lambda_{2,2} & \lambda_{2,3} & \lambda_{2,4} \\ 0 & 0 & \lambda_{3,3} & \lambda_{3,4} \\ 0 & 0 & 0 & \lambda_{4,4} \end{bmatrix} \begin{bmatrix} v_1 \\ v_2 \\ v_3 \\ v_4 \end{bmatrix}$ 

$$v_i \in \!\! \left\{ \begin{smallmatrix} \mathbf{all} & \mathbf{side} & \mathbf{task} & \mathbf{diag} \\ \mathbf{d} & \mathbf{d} & \mathbf{d} & \mathbf{d} \\ \mathbf{d} & \mathbf{d} \\ \mathbf{d} & \mathbf{d} & \mathbf{d} \\ \mathbf{d} & \mathbf{d} \\ \mathbf{d} & \mathbf{d} & \mathbf{d} \\ \mathbf{d} & \mathbf{d$$

