$$f(J_i)=\begin{bmatrix} f(\lambda_i) & \frac{1}{1!}f'(\lambda_i) & \cdots & \frac{1}{(m_i-1)!}f^{(m_i-1)}(\lambda_i) \\ & f(\lambda_i) & \cdots & \frac{1}{(m_i-2)!}f^{(m_i-2)}(\lambda_i) \\ & & \ddots & \vdots \\ & & & f(\lambda_i) \end{bmatrix}$$