Algorithm 1 Expectation Maximization initialize $\vec{\theta}^0$, T, and $i \leftarrow 0$ repeat $i \leftarrow i + 1$ **E Step:** compute $Q(\theta; \theta^i)$ **M step:** $\theta^{i+1} \to \arg \max_{\theta} Q(\vec{\theta}; \vec{\theta}^i)$

until $Q(\vec{\theta}^{i+1}; \vec{\theta}^i) - Q(\vec{\theta}^i; \vec{\theta}^{i-1}) \le T$

return $\hat{\vec{\theta}} \rightarrow \vec{\theta}^{i+1}$