Algorithm 1 Expectation Maximization

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initialize $\vec{\theta}^0$, T, and $i \leftarrow 0$
repeat
  $i \leftarrow i + 1$
  E Step: compute $Q(\vec{\theta}; \vec{\theta}^i)$
  M step: $\theta^{i+1} \rightarrow \arg\max_\theta Q(\vec{\theta}; \vec{\theta}^i)$
until $Q(\vec{\theta}^{i+1}; \vec{\theta}^i) - Q(\vec{\theta}^i; \vec{\theta}^{i-1}) \leq T$
return $\hat{\vec{\theta}} \rightarrow \vec{\theta}^{i+1}$