1. Using the notion of simplicial homotopy described in Definition 8.6 of Friedman, show that when $G$ is a topological group then the identity map of $E_\bullet G$ is homotopic to the constant map at the identity element $e \in E_0 G = G$.

2. If $K_\bullet$ is a simplicial space, by the simplicial $n$-skeleton, we mean the realization using only $K_i$, where $i \leq n$. Show that the simplicial 1-skeleton of $BG$ is the (reduced) suspension $\Sigma G$, where the identity element $e \in G$ serves as basepoint.

3. Consider the $\Delta$-interval $\Delta^1_\Delta$. Show that the natural map $|\Delta^1_\Delta \times \Delta^1_\Delta|_\Delta \longrightarrow |\Delta^1_\Delta|_\Delta \times |\Delta^1_\Delta|_\Delta$ is not a homeomorphism.