1. Write a function $my_make_lin_ind(A)$, where A and B are matrices. Let the rank(A)=n. Then B should be a matrix containing the first n columns of A that are all linearly independent. Note that this implies that B is full rank.

Test case:

2. In a markdown section in your notebook, explain what one hot encoding is and why we use it. Then, manually calculate a one hot encoding for the Belize_Airbnb_listings.csv neighborhood_group column. Note: manually means don't use scikitlearn or keras.