```python
def compute_cov(self, X_std, mean_vec):
    """
    Covariance using mean, (don't use any numpy.cov)
    :param X_std:
    :param mean_vec:
    :return n X n matrix:: covariance matrix
    """
    # your code here

    n = X_std.shape[0]
    new_X =  X_std - mean_vec

    return np.dot(np.transpose(new_X), new_X) / (n-1)
```