```matlab
function [priorMean,priorCovariance] =
 kalmanPrediction(posteriorMean,posteriorCovar,F,Q)
    %TASK 3 - Complete this function
    %priorMean = [];
    %priorCovariance = [];
    priorMean = F * posteriorMean;
    priorCovariance = F*posteriorCovar*transpose(F) + Q;
end
```

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