```
> dd <- as.data.frame(subset(Orthodont, Sex == 'Female'))
> head(dd,2)
   distance age Subject    Sex
65      21   8    F01 Female
66      20  10    F01 Female
> fit <- lme(distance ~ age, dd, random = ~ 1 + age | Subject,
+            correlation = corAR1(form = ~ 1| Subject))
> summary(fit)


Random effects:
 Formula: ~1 + age | Subject
 Structure: General positive-definite, Log-Cholesky parametrization
            StdDev    Corr
(Intercept) 1.9370273 (Intr)
age         0.1681860 -0.397
Residual    0.6479416
```

1. Calculate the estimated G matrix.
2. Find the G matrix if age had been centered at 10, i.e. if you had used age2 = age - 10 in the model instead of age.