```
/* load data */
DATA data:
        INFILE "/home/u63563888/435/homework5/kidney.dat";
        INPUT survival_time censor age neph;
        IF N = 1 THEN delete;
        IF age = 2 THEN age2 = 1; ELSE age2 = 0;
        IF age = 3 THEN age3 = 1; ELSE age3 = 0;
        DROP age;
RUN:
/* create cohorts */
DATA cohort_data;
        INPUT age2 age3 neph;
        DATALINES;
        0 0 0
        1 0 1
RUN;
/* calculate survival function */
PROC PHREG DATA = data;
        MODEL survival_time * censor(0) =
                        age2 age3 neph;
        BASELINE COVARIATES = cohort_data
                                 OUT = predictions
                                 SURVIVAL = S
                                 LOWER = S_lower
                                 UPPER = S_upper
                                 / nomean:
RUN;
/* generate data for plot */
DATA plot_data;
        SET predictions;
        LENGTH cohort $ 30;
        IF age2 = 0 and age3 = 0 and neph = 0
                THEN cohort = "age<60 without a nephrectomy";
        ELSE IF age2 = 1 and age3 = 0 and neph = 1
                THEN cohort = "60<=age<=70 with a nephrectomy";
RUN;
/* generate plot */
ods graphics on;
ods pdf file="/home/u63563888/435/homework5/hw5_graph.pdf";
```