**Migraine causes a headache of varying intensity, often accompanied by nausea and sensitivity to light and sound. Migraine headaches are sometimes preceded by warning symptoms. The data consist of headache logs kept in a treatment program in which bio-feedback was used to attempt to reduce migraine frequency and severity. Patients entered the program at different times over a period of about 3 years. Patients were encouraged to begin their logs four weeks before the onset of treatment and to continue for one month afterward.  Your task is to predict the migraine type for new patients that are coming in.  
  
Data Dictionary:**

1.       **patient**\_id: Patient id.

2.       **time**: time in days relative to the onset of treatment, which occurs at time 0.

3.       **dos**: time in days from the start of the study, January 1 of the first year of the study.

**4.**       **hatype** (**Target**): a factor with levels Aura No Aura, the type of migraine experienced by a subject. **(Encode: Aura =0, No Aura=1)**

5.       **age**: at the onset of treatment, in years.

6.       **airq**: a measure of air quality.

7.       **medication**: a factor with levels none reduced continuing, representing subjects who discontinued their medication, who continued but at a reduced dose, or who continued at the previous dose.

8.       **headache**: a factor with levels no yes.

9.       **sex**: a factor with levels of female male.