

- Q1
- Q2
- Q3
- Q4
- Q5
- Q6

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Q1

```

stability
stable positioning or not (stab / xstab).
error
size of error (MM / SS / LX / XL).
sign
sign of error, positive or negative (pp / nn).
wind
wind sign (head / tail).
magn
wind strength (Light / Medium / Strong / Out of Range).
vis
visibility (yes / no).
use
use the autolander or not. (auto / noauto.)

```

Consider the space shuttle data ?shuttle in the MASS library. Consider modeling the use of the autolander as the outcome (variable name use).

Fit a logistic regression model with autolander (variable auto) use (labeled as “auto” 1) versus not (0) as predicted by wind sign (variable wind).

Give the estimated odds ratio for autolander use comparing head winds, labeled as “head” in the variable headwind (numerator) to tail winds (denominator).

```

library(MASS)
head(shuttle)

```

```

##  stability error sign wind  magn vis  use
## 1      xstab  LX   pp head Light  no auto
## 2      xstab  LX   pp head Medium no auto
## 3      xstab  LX   pp head Strong no auto
## 4      xstab  LX   pp tail Light  no auto
## 5      xstab  LX   pp tail Medium no auto

```

