**st_viewvars() — Variables and observations of view**

**Syntax**

```
real rowvector st_viewvars(matrix V)
real vector   st_viewobs(matrix V)
```

where V is required to be a view.

**Description**

`st_viewvars(V)` returns the indices of the Stata variables corresponding to the columns of V.

`st_viewobs(V)` returns the Stata observation numbers corresponding to the rows of V. Returned is either a 1 × 2 row vector recording the observation range or an N × 1 column vector recording the individual observation numbers.

**Remarks and examples**

The results returned by these two functions are suitable for inclusion as arguments in subsequent calls to `st_view()` and `st_sview`; see [M-5] `st_view()`.

**Conformability**

- `st_viewvars(V)`:
  - V: N × k
  - result: 1 × k

- `st_viewobs(V)`:
  - V: N × k
  - result: 1 × 2 or N × 1

**Diagnostics**

`st_viewvars(V)` and `st_viewobs(V)` abort with error if V is not a view.

**Also see**

- [M-5] `st_view()` — Make matrix that is a view onto current Stata dataset
- [M-4] `stata` — Stata interface functions