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- data`fish` by`species` by`weight` first.
`last.`
 - `proc sort`
 - [SAS BY](#)
- `first.`
 - `first.` ... by`species` '1'
 - `last.` ... by`species` '0'
- `first.column_name` `last.column_name` `if`

```
proc sort data=sashelp.fish out=work.fish_sorted;
by species;
run;

data work.fish;
set work.fish_sorted(where=(not missing(Weight))); /*  */
by species; /* species  */

/*  */
if first.species then do;
count = 0;
weight_sum = 0;
end;

/*  */
retain count weight_sum;
count = count + 1;
weight_sum = weight_sum + Weight;

/*  */
if last.species then do;
weight_avg = round(weight_sum / count, 0.1);
output;
end;
```

```
/* 〇〇〇〇〇〇〇〇〇 */  
keep species count weight_sum weight_avg;  
run;
```

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