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**resamp**

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syntax: `resamp(data)`  
`resamp(n, data)`

purpose: Resamples, with replacement, from a dataset.

If the data is a matrix with more than one column and row, the resamples are drawn row by row.

If `n` is not given, the number of samples will be the number of data points in `data`. (If `data` is a matrix, this is the number of rows. If `data` is a vector, this is `length(data)`).

examples: `data = [5.6 4.3 1.1 3 6];`

```
>> resamp(data)
ans:    5.6 6 1.1 1.1 1.1
>> resamp(3,data)
ans:    4.3 6 6
```

```
datamatrix = [1 7.1;
              2 8.2;
              3 9.3;
              4 10.4;
              5 11.5];
```

```
>> resamp(datamatrix)
ans:    2.0 8.2
        3.0 9.3
        2.0 8.2
        3.0 9.3
        4.0 10.4
>> resamp(3,datamatrix)
ans:    3.0 9.3
        4.0 10.4
        2.0 8.2
```

See also: `SAMPLE` for sampling from a probability distribution, or `SHUFFLE` for sampling from a data set without replacement.

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This document is an excerpt from

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Resampling Stats, Inc.

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