Apply

```
apply(X, MARGIN, FUN, ...)
  MARGIN=1 - rows
  MARGIN=2 - columns

apply(africa[,-1:-2], 2, mean, na.rm=TRUE)
```

```
    gdp_2017     pop_2017          area          rail          road
2.190350e+10 2.323929e+07 5.551491e+05 2.341742e+03 4.406992e+04
```

Apply

```
> month_indicators
     Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec
1      1   0   0   0   0   0   0   0   0   0   0   0
2      1   0   0   0   0   0   0   0   1   1   1   1
3      1   1   1   0   0   0   0   0   0   1   1   1
4      0   0   0   0   0   0   0   0   1   1   1   1
...
```

```
> apply(month_indicators, 1, sum)
  [1]  1  5  6  4  4  3  1  1  2  4  2  2  3  6 11  2  2  2  3
 [20]  2  6  9  0  2  3  0  0  3  2  2  0  0  0  2  5  0  3  1
 [39]  1  3  2  3  5  2  0  3  0  6  3  7  2  4  1  3  2  0  0
 [58]  0  0  0  3  4  4  3  3  0  0  0  0  0  4  3  3  0  2  5
 [77]  0  1  2  0  4  0  0  3  0  1  1  3  6  6  3  0  3  2  2
```