___test.R

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```r
if(F){}
library(spida2)
  library(gnew)
```

```
## Registered S3 method overwritten by 'gnew':
##   method      from
##   solve.pdInd spida2
```

Running .onLoad

```
##
```

```
## Attaching package: 'gnew'

## The following objects are masked from 'package:spida2':
##
##     assn, dropone, f2L, f2R, getG, getR, getV, pdConstruct.pdInd,
##     pdFactor.pdInd, pdInd, pdMatrix.pdInd, rnd, tablemissing
```

```
library(kableExtra)
a <- Titanic
list_array(a, 4)
```

Survived: No

, , Age = Child

  Sex

Class Male Female 1st 0 0 2nd 0 0 3rd 35 17 Crew 0 0

, , Age = Adult

  Sex

Class Male Female 1st 118 4 2nd 154 13 3rd 387 89 Crew 670 3

Survived: Yes

, , Age = Child

    Sex

Class Male Female 1st 5 1 2nd 11 13 3rd 13 14 Crew 0 0

, , Age = Adult

    Sex

Class Male Female 1st 57 140 2nd 14 80 3rd 75 76 Crew 192 20

```r
list_array(a, 4)  %>% pr
```

Survived: No

, , Age = Child

    Sex

Class Male Female 1st 0 0 2nd 0 0 3rd 35 17 Crew 0 0

, , Age = Adult

    Sex

Class Male Female 1st 118 4 2nd 154 13 3rd 387 89 Crew 670 3

Survived: Yes

, , Age = Child

    Sex

Class Male Female 1st 5 1 2nd 11 13 3rd 13 14 Crew 0 0

, , Age = Adult

    Sex

Class Male Female 1st 57 140 2nd 14 80 3rd 75 76 Crew 192 20

```
list_array(a, 3:4)
```

Survived: No Age: Child

    Sex

Class Male Female 1st 0 0 2nd 0 0 3rd 35 17 Crew 0 0

Survived: No Age: Adult

    Sex

Class Male Female 1st 118 4 2nd 154 13 3rd 387 89 Crew 670 3

Survived: Yes Age: Child

    Sex

Class Male Female 1st 5 1 2nd 11 13 3rd 13 14 Crew 0 0

Survived: Yes Age: Adult

    Sex

Class Male Female 1st 57 140 2nd 14 80 3rd 75 76 Crew 192 20

```
list_array(a, 3:4) %>% pr
```

Survived: No Age: Child

    Sex

Class Male Female 1st 0 0 2nd 0 0 3rd 35 17 Crew 0 0

Survived: No Age: Adult

    Sex

Class Male Female 1st 118 4 2nd 154 13 3rd 387 89 Crew 670 3

Survived: Yes Age: Child

```
   Sex
```

Class Male Female 1st 5 1 2nd 11 13 3rd 13 14 Crew 0 0

Survived: Yes Age: Adult

```
   Sex
```

Class Male Female 1st 57 140 2nd 14 80 3rd 75 76 Crew 192 20

```r
kbl_array(tab(a),2:3)
```

	No	Yes	Total
Age: Child			
Sex: Male			
1st	0	5	5
2nd	0	11	11
3rd	35	13	48
Crew	0	0	0
Total	35	29	64
Age: Child			
Sex: Female			
1st	0	1	1
2nd	0	13	13
3rd	17	14	31
Crew	0	0	0
Total	17	28	45
Age: Child			
Sex: Total			
1st	0	6	6
2nd	0	24	24
3rd	52	27	79
Crew	0	0	0
Total	52	57	109
Age: Adult			
Sex: Male			

```
kbl_array(tab(a, pct =1 ),2:3)
```

	No	Yes	Total
Age: Child			
Sex: Male			
1st	0.0000000	1.5384615	1.5384615
2nd	0.0000000	3.8596491	3.8596491
3rd	4.9575071	1.8413598	6.7988669
Crew	0.0000000	0.0000000	0.0000000
All	1.5901863	1.3175829	2.9077692
Age: Child			
Sex: Female			
1st	0.0000000	0.3076923	0.3076923
2nd	0.0000000	4.5614035	4.5614035
3rd	2.4079320	1.9830028	4.3909348
Crew	0.0000000	0.0000000	0.0000000
All	0.7723762	1.2721490	2.0445252
Age: Child			
Sex: Total			
1st	0.0000000	1.8461538	1.8461538
2nd	0.0000000	8.4210526	8.4210526
3rd	7.3654391	3.8243626	11.1898017
Crew	0.0000000	0.0000000	0.0000000
All	2.3625625	2.5897319	4.9522944
Age: Adult			
Sex: Male			

```
  kbl_array
```

function(a, MARGIN, ...) { library(kableExtra) larr <- list_array(a, MARGIN) mat <-
do.call(rbind, larr) narr <- sapply(larr, nrow) nend <- cumsum(narr) nr <- narr[1] nstart <- nend -
nr + 1

ret <- kableExtra::kbl(mat,...) for(i in seq_along(narr)){ ret <- kableExtra::group_rows(ret,
names(larr)[i], start_row = nstart[i], end_row = nend[i]) } ret <- kableExtra::kable_styling(ret) ret
} <bytecode: 0x55829af6a2a8> <environment: namespace:gnew>

```r
kk <-  function(a, MARGIN, ...) {
    library(kableExtra)
    larr <- list_array(a, MARGIN)
    mat <- do.call(rbind, larr)
    narr <- sapply(larr, nrow)
    nend <- cumsum(narr)
    nr <- narr[1]
    nstart <- nend - nr + 1

    ret <- kableExtra::kbl(mat,...)
    for( i in seq_along(narr)){
      ret <- kableExtra::group_rows(ret, names(larr)[i], start_row = nstart[i], end_row = nend[i]
```

```
    }
    ret <- kableExtra::kable_styling(ret)
    ret
}

kk(Titanic, c(2,3))
```

	No	Yes
Age: Child		
Sex: Male		
1st	0	5
2nd	0	11
3rd	35	13
Crew	0	0
Age: Child		
Sex: Female		
1st	0	1
2nd	0	13
3rd	17	14
Crew	0	0
Age: Adult		
Sex: Male		
1st	118	57
2nd	154	14
3rd	387	75
Crew	670	192
Age: Adult		
Sex: Female		
1st	4	140
2nd	13	80
3rd	89	76

```
Titanic %>%
  as.data.frame %>%
  {.[,c(4,3,2,1,5)]} %>%
  kbl(longtable= T, caption = 'This is the caption') %>%
  #  collapse_rows(1:4,  row_group_label_position = 'stack', valign = 'top') %>%
  collapse_rows(1:4) %>%
  kable_styling(full_width=F, latex_options = c('repeat_header'))
```

Table 1: This is the caption

Survived	Age	Sex	Class	Freq
			1st	0
			2nd	0
		Male	3rd	35
			Crew	0
	Child		1st	0
			2nd	0
		Female	3rd	17
			Crew	0
			1st	118
			2nd	154

Survived	Age	Sex	Class	Freq
No		Male		
	Adult		3rd	387
			Crew	670
		Female	1st	4
			2nd	13
			3rd	89
			Crew	3
	Child	Male	1st	5
			2nd	11
			3rd	13
			Crew	0
		Female	1st	1
			2nd	13
			3rd	14
			Crew	0
		Male	1st	57
			2nd	14
			3rd	75
			Crew	192

Yes

Survived	Age	Sex	Class	Freq
	Adult		1st	140
		Female	2nd	80
			3rd	76
			Crew	20

```r
# kable_styling(full_width=F)
Titanic %>%
  as.data.frame %>%
  {.[,c(4,3,2,1,5)]} %>%
  kbl(longtable= T, caption = 'This is the caption') %>%
  # collapse_rows(1:4,  row_group_label_position = 'stack', valign = 'top') %>%
  collapse_rows(1:4) %>%
  kable_styling(full_width=F)
```

Table 2: This is the caption

Survived	Age	Sex	Class	Freq
			1st	0

No				
	Child	Male	2nd	0
			3rd	35
			Crew	0
		Female	1st	0
			2nd	0
			3rd	17
			Crew	0
	Adult	Male	1st	118
			2nd	154
			3rd	387
			Crew	670
		Female	1st	4
			2nd	13
			3rd	89
			Crew	3
		Male	1st	5
			2nd	11
			3rd	13
			Crew	0
			1st	1

Child				
Yes		Female	2nd	13
			3rd	14
			Crew	0
	Adult	Male	1st	57
			2nd	14
			3rd	75
			Crew	192
		Female	1st	140
			2nd	80
			3rd	76
			Crew	20

```
# kable_styling(full_width=F)
```