

P. 704-10: Modeling a Temperature Table

Time	Location		
	Outlet1	Outlet2	Outlet3
12 A.M.	65.5	68.7	62.0
6 A.M.	68.8	68.9	64.5
12 P.M.	70.4	69.4	66.3
6 P.M.	68.5	69.1	65.8

```
enum Row {ROW_UNDERFLOW = -1, MIDNIGHT, SIX_AM, NOON, SIX_PM,
          NUM_TIMES, ROW_OVERFLOW = 4};
```

```
enum Column {COLUMN_UNDERFLOW = -1, OUTLET1, OUTLET2, OUTLET3,
             NUM_OUTLETS, COLUMN_OVERFLOW = 3};
```

```
double temperatureGrid[NUM_TIMES][NUM_OUTLETS];
```

```
temperatureGrid:      [OUTLET1]  [OUTLET2]  [OUTLET3]
```

[MIDNIGHT]			
[SIX_AM]			
[NOON]			
[SIX_PM]			

As an array of rows:

```
temperatureGrid:
```

[MIDNIGHT]	
[SIX_AM]	
[NOON]	
[SIX_PM]	

where each row is a one-dimensional array of three reals:

```
temperatureGrid:
```

	[OUTLET1]	[OUTLET2]	[OUTLET3]
[MIDNIGHT]			
	[OUTLET1]	[OUTLET2]	[OUTLET3]
[SIX_AM]			
	[OUTLET1]	[OUTLET2]	[OUTLET3]
[NOON]			
	[OUTLET1]	[OUTLET2]	[OUTLET3]
[SIX_PM]			

For example, `temperatureGrid[SIX_AM]` is the second row:

	[OUTLET1]	[OUTLET2]	[OUTLET3]
[SIX_AM]			