

```
RM_{A \to B} := Module [ {vs = Table [ \xi_i, {i, A} ] U Table [ z_i, {i, B} ] },  
  M_{A \to B} [ 1, Sum [ RandomInteger [ {-3, 3} ] v_i v_j, {v_i, vs}, {v_j, vs} ] ] ] ;  
{M1 = RM_{\{1,2\} \to \{1,2,3\}}, M2 = RM_{\{1,2,3\} \to \{1,2,3\}}, M3 = RM_{\{1,2,3\} \to \{1,2\}} } // Column
```