```
var::matrix< D >
   - data
   _row
     _col
   + matrix()
   + matrix()
   + matrix()
   + row()
   + col()
   + size()
   + begin()
   + end()
   + begin()
   + end()
   + get_element()
+ get_row()
   + get_col()
+ resize()
   + push_row()
+ push_col()
   + insert_row()
+ insert_col()
   + pop_row()
   + pop_col()
   + erase_row()
+ erase_col()
   + row_swap()
+ col_swap()
   + replace_row()
   + replace_col()
   + sort_rows()
+ sort_cols()
   + sort_row()
   + sort_col()
  + row_op()
+ col_op()
+ mat_op()
+ join_row()
+ join_col()
+ tum_to()
   + sum()
   + tr()
   + det()
     T()
   + cofactor()
   + M()
   + adj()
+ inv()
   + rref()
   + ref()
   + plu()
   + is_square()
   + is_empty()
+ is_identity()
   + operator[]()
   + operator+(
   + operator+()
   + operator+=()
   + operator+=()
   + operator++()
   + operator-()
   + operator-()
   + operator-()
   + operator-=()
   + operator-=()
   + operator--()
   + operator*()
   + operator*()
   + mathmul()
   + operator/()
   + operator/()
   + mathdiv()
  + operator()()
+ operator()()
   + operator()()
  # check_col()
  # check
              _row()
  # TT()
  # check_size()
  # MM()
  # DET()
  # square()
               +L
               +P
               ·U
var::matrix< D >::LU
```