```
vm t
                      +width: int
                      +height: int
                      +nnz: int
                      +storage_size: size_t
                      +mm load(matrix:vm t *,filename:string)
                      +mm save(matrix:vm t *,filename:string)
                      +print(matrix:vm t *)
                      +compare(matrix_a:vm_t *,matrix_b:vm_t *): bool
                      +distance(matrix_a:vm_t *,matrix_b:vm_t *): int
                      +convert(matrix:vm_t *,type:virtual_matrix_type)
                      +mul(mtx a:vm t,mtx b:vm t *,mtx c:vm t *): time
                    coo t
                                                                       csr t
+width: int
                                                  +width: int
+height: int
                                                  +height: int
                                                  +nnz: int
+nnz: int
+mm load(matrix:vm t *,filename:string)
                                                  +mm load(matrix:vm t *,filename:string)
+mul(mtx_a:vm_t,mtx_b:vm_t *,mtx_c:vm_t *): time
                                                  +mul(mtx_a:vm_t,mtx_b:vm_t *,mtx_c:vm_t *): time
                    kat_t
                                                                       bsr_t
                                                  +width: int
+width: int
                                                  +height: int
+height: int
+nnz: int
                                                   +nnz: int
+mm_load(matrix:vm_t *,filename:string)
                                                  +mm_load(matrix:vm_t *,filename:string)
+mul(mtx_a:vm_t,mtx_b:vm_t *,mtx_c:vm_t *): time
                                                  +mul(mtx_a:vm_t,mtx_b:vm_t *,mtx_c:vm_t *): time
                    den_t
                                                                       vec_t
+width: int
                                                   +width: int
                                                   +height: int
+height: int
                                                   +nnz: int
+nnz: int
                                                   +mm_load(matrix:vm_t *,filename:string)
+mm_load(matrix:vm_t *,filename:string)
                                                   +mm save(matrix:vm t *,filename:string)
+mm_save(matrix:vm_t *,filename:string)
                                                   +print(matrix:vm_t *)
+print(matrix:vm t *)
+compare(matrix_a:vm_t *,matrix_b:vm_t *): bool
                                                   +compare(matrix_a:vm_t *,matrix_b:vm_t *): bool
+distance(matrix_a:vm_t *,matrix_b:vm_t *): int
                                                   +distance(matrix a:vm t *, matrix b:vm t *): int
+convert(matrix:vm_t *,type:virtual_matrix_type)
+mul(mtx_a:vm_t,mtx_b:vm_t *,mtx_c:vm_t *): time
```