```
QCMATRIX APIs
           typedef struct {
                                                  QErrorCode QcMatWrite(QcMat* A,
             QInt dim_block;
                                                                       const QChar *mat_label,
             RealMat **blocks;
                                                                       const QViewOption view_option)
             QcMat:
                                                            QCMATRIX Fortran Adapter (C part)
                                                QErrorCode RealMatWrite(RealMat *A,
                                                                         const QChar *mat_label,
                                                                         const QViewOption view_option)
    typedef struct {
      QInt f90_imat[SIZEOF_F_TYPE_P];
      QBool external_mat;
                                                  f90_adapter_Mat_Ptr_Write(&A->f90_imat[0], ...);
     RealMat:
                                                   . . . . . . ;
                                                                             transfer()
                                                         QCMATRIX Fortran Adapter (Fortran part)
                                                    module f90_adapter
type matrix_ptr_t
                                                       subroutine Mat_Ptr_Write(iA, ...)
  private
                                                         integer, intent(in) :: iA(SIZEOF_F_TYPE_P)
  type(LANG_F_MATRIX), pointer :: f90_mat
end type matrix_ptr_t
                                                         type(matrix_ptr_t) A
                                                         A = transfer(iA, A)
                                                         call Matrix_Write(A%ptr, ...)
                                                       end subroutine Mat_Ptr_Write
                                                    end module f90_adapter
```