Objects for Type Hinting

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main] [Doc] [c-api] typehints.rst, line 1)
Unknown directive type "highlight".
```

```
.. highlight:: c
```

Various built-in types for type hinting are provided. Currently, two types exist -- ref: GenericAlias <types-genericalias>` and ref: Union <types-union>`. Only GenericAlias is exposed to C.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main][Doc][c-api]typehints.rst, line 8); backlink

Unknown interpreted text role 'ref'.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main][Doc][c-api]typehints.rst, line 8); backlink

Unknown interpreted text role 'ref'.

 $System\,Message: ERROR/3~(\texttt{D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main\][Doc\]~[c-api\]~typehints.rst, \\ \textit{line}~12)$

Unknown directive type "c:function".

```
.. c:function:: PyObject* Py_GenericAlias(PyObject *origin, PyObject *args)
   Create a :ref: `GenericAlias <types-genericalias>` object.
   Equivalent to calling the Python class
   :class:`types.GenericAlias`. The *origin* and *args* arguments set the
``GenericAlias``\ 's ``__origin__`` and ``__args__`` attributes respect:
   ``GenericAlias``\ 's ``__origin__`` and ``__args__`` attributes respected in a should be a :c:type:`PyTypeObject*`, and *args* can be a :c:type:`PyTupleObject*` or any ``PyObject*``. If *args* passed is not a tuple, a 1-tuple is automatically constructed and ``__args__``
                                                                         ` attributes respectively.
   to ``(args,)``.
   Minimal checking is done for the arguments, so the function will succeed even
   if *origin* is not a type.
The ``GenericAlias``\ 's ``
                                          _parameters__`` attribute is constructed lazily
               _args__``. On failure, an exception is raised and ``NULL`` is
   returned.
   Here's an example of how to make an extension type generic::
       static PyMethodDef my_obj_methods[] = {
            // Other methods.
             {" class getitem ", Py GenericAlias, METH O|METH CLASS, "See PEP 585"}
    .. seealso:: The data model method :meth:`__class_getitem `.
    .. versionadded:: 3.9
```

```
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```

Unknown directive type "c:var".

```
.. c:var:: PyTypeObject Py_GenericAliasType
The C type of the object returned by :c:func:`Py_GenericAlias`. Equivalent to :class:`types.GenericAlias` in Python.
.. versionadded:: 3.9
```