Mapping Protocol

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

See also :c:func: 'PyObject_GetItem', :c:func: 'PyObject_SetItem' and :c:func: 'PyObject_DelItem'.

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

Unknown interpreted text role "c:func".

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

Unknown interpreted text role "c:func".

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

Unknown interpreted text role "c:func".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\(cpython-main\) (Doc) (c-api) mapping.rst, line 12)

Unknown directive type "c:function".

```
.. c:function:: int PyMapping_Check(PyObject *o)
```

```
Return ``1`` if the object provides the mapping protocol or supports slicing, and ``0`` otherwise. Note that it returns ``1`` for Python classes with a :meth: __getitem__` method, since in general it is impossible to determine what type of keys the class supports. This function always succeeds.
```

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System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\((cpython-main)\) (Doc) (c-api) mapping.rst, line 29)

Unknown directive type "c:function".

```
.. c:function:: PyObject* PyMapping_GetItemString(PyObject *o, const char *key)

Return element of *o* corresponding to the string *key* or ``NULL`` on failure.
This is the equivalent of the Python expression ``o[key]``.

See also :c:func:`PyObject GetItem`.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\((cpython-main)\) (Doc) (c-api) mapping.rst, line 36)

Unknown directive type "c:function".

```
.. c:function:: int PyMapping_SetItemString(PyObject *o, const char *key, PyObject *v)

Map the string *key* to the value *v* in object *o*. Returns ``-1`` on failure. This is the equivalent of the Python statement ``o[key] = v``. See also :c:func:`PyObject_SetItem`. This function *does not* steal a reference to *v*.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\((cpython-main)\) (Doc) (c-api) mapping.rst, line 44)

Unknown directive type "c:function".

```
.. c:function:: int PyMapping_DelItem(PyObject *o, PyObject *key)

Remove the mapping for the object *key* from the object *o*. Return ``-1``
  on failure. This is equivalent to the Python statement ``del o[key]``.
  This is an alias of :c:func:`PyObject_DelItem`.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\(cpython-main\) (Doc) (c-api) mapping.rst, line 51)

Unknown directive type "c:function".

```
.. c:function:: int PyMapping_DelItemString(PyObject *o, const char *key)

Remove the mapping for the string *key* from the object *o*. Return ``-1``
on failure. This is equivalent to the Python statement ``del o[key]``.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\(cpython-main\) (Doc) (c-api) mapping.rst, line 57)

Unknown directive type "c:function".

```
.. c:function:: int PyMapping_HasKey(PyObject *o, PyObject *key)

Return ``1`` if the mapping object has the key *key* and ``0`` otherwise.
This is equivalent to the Python expression ``key in o``.
This function always succeeds.

Note that exceptions which occur while calling the :meth:`__getitem__`
method will get suppressed.
To get error reporting use :c:func:`PyObject_GetItem()` instead.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\((cpython-main)\) (Doc) (c-api) mapping.rst, line 68)

Unknown directive type "c:function".

```
.. c:function:: int PyMapping_HasKeyString(PyObject *o, const char *key)
Return ``1`` if the mapping object has the key *key* and ``0`` otherwise.
This is equivalent to the Python expression ``key in o``.
This function always succeeds.

Note that exceptions which occur while calling the :meth:`__getitem__`
method and creating a temporary string object will get suppressed.
To get error reporting use :c:func:`PyMapping GetItemString()` instead.
```

Unknown directive type "c:function".

```
.. c:function:: PyObject* PyMapping_Keys(PyObject *o)
On success, return a list of the keys in object *o*. On failure, return ``NULL``.
.. versionchanged:: 3.7
Previously, the function returned a list or a tuple.
```

Unknown directive type "c:function".

```
.. c:function:: PyObject* PyMapping_Values(PyObject *o)
On success, return a list of the values in object *o*. On failure, return
``NULL``.
```

.. versionchanged:: 3.7
Previously, the function returned a list or a tuple.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\(cpython-main\) (Doc) (c-api) mapping.rst, line 97)

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```
.. c:function:: PyObject* PyMapping_Items(PyObject *o)
On success, return a list of the items in object *o*, where each item is a
tuple containing a key-value pair. On failure, return ``NULL``.
```

.. versionchanged:: 3.7
Previously, the function returned a list or a tuple.