List Objects

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main][Doc][c-api]list.rst, line 1)

Unknown directive type "highlight".

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

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

Unknown directive type "index".

```
.. index:: object: list
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main][Doc][c-api]list.rst, line 11)

Unknown directive type "c:type".

```
.. c:type:: PyListObject

   This subtype of :c:type:`PyObject` represents a Python list object.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main][Doc][c-api]list.rst, line 16)

Unknown directive type "c:var".

```
.. c:var:: PyTypeObject PyList_Type

   This instance of :c:type:`PyTypeObject` represents the Python list type.
   This is the same object as :class:`list` in the Python layer.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main][Doc][c-api]list.rst, line 22)

Unknown directive type "c:function".

```
.. c:function:: int PyList_Check(PyObject *p)

   Return true if *p* is a list object or an instance of a subtype of the list
   type.  This function always succeeds.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main][Doc][c-api]list.rst, line 28)

Unknown directive type "c:function".

```
.. c:function:: int PyList_CheckExact(PyObject *p)

   Return true if *p* is a list object, but not an instance of a subtype of
   the list type.  This function always succeeds.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main][Doc][c-api]list.rst, line 34)

Unknown directive type "c:function".

```
.. c:function:: PyObject* PyList_New(Py_ssize_t len)

   Return a new list of length *len* on success, or ``NULL`` on failure.

   .. note::
```

```
   If *len* is greater than zero, the returned list object's items are
   set to ``NULL``.  Thus you cannot use abstract API functions such as
   :c:func:`PySequence_SetItem`  or expose the object to Python code before
   setting all items to a real object with :c:func:`PyList_SetItem`.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main][Doc][c-api]list.rst, line 46)

Unknown directive type "c:function".

```
.. c:function:: Py_ssize_t PyList_Size(PyObject *list)

   .. index:: builtin: len

   Return the length of the list object in *list*; this is equivalent to
   ``len(list)`` on a list object.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main][Doc][c-api]list.rst, line 54)

Unknown directive type "c:function".

```
.. c:function:: Py_ssize_t PyList_GET_SIZE(PyObject *list)

   Macro form of :c:func:`PyList_Size` without error checking.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main][Doc][c-api]list.rst, line 59)

Unknown directive type "c:function".

```
.. c:function:: PyObject* PyList_GetItem(PyObject *list, Py_ssize_t index)

   Return the object at position *index* in the list pointed to by *list*.  The
   position must be non-negative; indexing from the end of the list is not
   supported.  If *index* is out of bounds (<0 or >=len(list)),
   return ``NULL`` and set an :exc:`IndexError` exception.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main][Doc][c-api]list.rst, line 67)

Unknown directive type "c:function".

```
.. c:function:: PyObject* PyList_GET_ITEM(PyObject *list, Py_ssize_t i)

   Macro form of :c:func:`PyList_GetItem` without error checking.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main][Doc][c-api]list.rst, line 72)

Unknown directive type "c:function".

```
.. c:function:: int PyList_SetItem(PyObject *list, Py_ssize_t index, PyObject *item)

   Set the item at index *index* in list to *item*.  Return ``0`` on success.
   If *index* is out of bounds, return ``-1`` and set an :exc:`IndexError`
   exception.

   .. note::

      This function "steals" a reference to *item* and discards a reference to
      an item already in the list at the affected position.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main][Doc][c-api]list.rst, line 84)

Unknown directive type "c:function".

```
.. c:function:: void PyList_SET_ITEM(PyObject *list, Py_ssize_t i, PyObject *o)
```

```
   Macro form of :c:func:`PyList_SetItem` without error checking. This is
   normally only used to fill in new lists where there is no previous content.

   .. note::

      This macro "steals" a reference to *item*, and, unlike
      :c:func:`PyList_SetItem`, does *not* discard a reference to any item that
      is being replaced; any reference in *list* at position *i* will be
      leaked.
```

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

Unknown directive type "c:function".

```
.. c:function:: int PyList_Insert(PyObject *list, Py_ssize_t index, PyObject *item)

   Insert the item *item* into list *list* in front of index *index*.  Return
   ``0`` if successful; return ``-1`` and set an exception if unsuccessful.
   Analogous to ``list.insert(index, item)``.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main][Doc][c-api]list.rst, line 104)

Unknown directive type "c:function".

```
.. c:function:: int PyList_Append(PyObject *list, PyObject *item)

   Append the object *item* at the end of list *list*. Return ``0`` if
   successful; return ``-1`` and set an exception if unsuccessful.  Analogous
   to ``list.append(item)``.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main][Doc][c-api]list.rst, line 111)

Unknown directive type "c:function".

```
.. c:function:: PyObject* PyList_GetSlice(PyObject *list, Py_ssize_t low, Py_ssize_t high)

   Return a list of the objects in *list* containing the objects *between* *low*
   and *high*.  Return ``NULL`` and set an exception if unsuccessful.  Analogous
   to ``list[low:high]``.  Indexing from the end of the list is not supported.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main][Doc][c-api]list.rst, line 118)

Unknown directive type "c:function".

```
.. c:function:: int PyList_SetSlice(PyObject *list, Py_ssize_t low, Py_ssize_t high, PyObject *itemli

   Set the slice of *list* between *low* and *high* to the contents of
   *itemlist*.  Analogous to ``list[low:high] = itemlist``. The *itemlist* may
   be ``NULL``, indicating the assignment of an empty list (slice deletion).
   Return ``0`` on success, ``-1`` on failure.  Indexing from the end of the
   list is not supported.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main][Doc][c-api]list.rst, line 127)

Unknown directive type "c:function".

```
.. c:function:: int PyList_Sort(PyObject *list)

   Sort the items of *list* in place.  Return ``0`` on success, ``-1`` on
   failure.  This is equivalent to ``list.sort()``.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-

main\Doc\c-api\[cpython-main][Doc][c-api]list.rst, line 133)

Unknown directive type "c:function".

```
.. c:function:: int PyList_Reverse(PyObject *list)

   Reverse the items of *list* in place.  Return ``0`` on success, ``-1`` on
   failure.  This is the equivalent of ``list.reverse()``.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main][Doc][c-api]list.rst, line 139)

Unknown directive type "c:function".

```
.. c:function:: PyObject* PyList_AsTuple(PyObject *list)

   .. index:: builtin: tuple

   Return a new tuple object containing the contents of *list*; equivalent to
   ``tuple(list)``.
```