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ctypes

C DLL . 2.5

C Type **Python Type** ctypes Type bool bool(1) c bool 1-character string char c char 1-character Unicode string c wchar wchar t char int/long c byte unsigned char int/long c ubyte short int/long c short unsigned short int/long c ushort int int/long c int size t int/long c size t unsigned int int/long c uint long int/long c_long unsigned long int/long c_ulong long long int/long c longlong unsigned long long int/long c_ulonglong float float c float double float c double long double float c longdouble char * (NULL terminated) string or none c_char_p wchar_t * (NULL terminated) unicode or none c wchar p void * int/long or none c_void_p

```
from ctypes import *

print c_ushort(-5)

seitz = c_char_p("loves the python")
print seitz
print seitz.value
```

```
c_ushort(65531)
c_char_p('loves the python')
loves the python
```

value

C

```
struct beer_recipe
{
    int amt_barley;
    int amt_water;
};
```

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```
class beer_recipe(Structure):
    _fields_ = [
            ("amt_barley", c_int),
            ("amt_water", c_int),
]
```

C

```
union {
   long barley_long;
   int barley_int;
```

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```
char barley_char[8];
}barley_amount;
```

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```
class barley_amount(Union):
    _fields_ = [
        ("barley_long", c_long),
        ("barley_int", c_int),
        ("barley_char", c_char * 8),
]
```

```
class test(Structure):
    _fields_ = [
          ("a", c_ushort),
          ("b", c_ushort)
]

s = POINTER(test)
s = s(test())

# s = POINTER(test)(test())

s.contents.a = 1
s.contents.b = 2
```

DLL

3가

cdll()

cdecl export

windll()

stdcall export

oledII()

windll() HRESULT COM export

msvcrt.dll printf

```
from ctypes import *
msvcrt = cdll.msvcrt
message_string = "Hello world!\n"
msvcrt.printf("Testing: %s", message_string)
```

ctypes

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