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# Patch from Google adding getChildBytes()

#

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"""Class for parsing ASN.1"""

from .compat import \*

from .codec import \*

#Takes a byte array which has a DER TLV field at its head

class ASN1Parser(object):

def \_\_init\_\_(self, bytes):

p = Parser(bytes)

p.get(1) #skip Type

#Get Length

self.length = self.\_getASN1Length(p)

#Get Value

self.value = p.getFixBytes(self.length)

#Assuming this is a sequence...

def getChild(self, which):

return ASN1Parser(self.getChildBytes(which))

def getChildBytes(self, which):

p = Parser(self.value)

for x in range(which+1):

markIndex = p.index

p.get(1) #skip Type

length = self.\_getASN1Length(p)

p.getFixBytes(length)

return p.bytes[markIndex : p.index]

#Decode the ASN.1 DER length field

def \_getASN1Length(self, p):

firstLength = p.get(1)

if firstLength<=127:

return firstLength

else:

lengthLength = firstLength & 0x7F

return p.get(lengthLength)