```
See Portable Document Format Reference Manual, 1993. ISBN 0-201-62628-4.
See
https://ia802202.us.archive.org/8/items/pdfy-0vt8s-egqFwDl7L2/PDF%20Reference%201.0
.pdf
PDF Reference, third edition, Version 1.4, 2001. ISBN 0-201-75839-3.
PDF Reference, sixth edition, Version 1.7, 2006.
from enum import IntFlag
from typing import Dict, Tuple
class Core:
    """Keywords that don't quite belong anywhere else."""
    OUTLINES = "/Outlines"
    THREADS = "/Threads"
    PAGE = "/Page"
    PAGES = "/Pages"
    CATALOG = "/Catalog"
class TrailerKeys:
    ROOT = "/Root"
    ENCRYPT = "/Encrypt"
    ID = "/ID"
    INFO = "/Info"
    SIZE = "/Size"
class CatalogAttributes:
    NAMES = "/Names"
    DESTS = "/Dests"
class EncryptionDictAttributes:
    Additional encryption dictionary entries for the standard security handler.
    TABLE 3.19, Page 122
    R = "/R" # number, required; revision of the standard security handler
    0 = "/0" # 32-byte string, required
    U = "/U" # 32-byte string, required
    P = "/P" # integer flag, required; permitted operations
```

.....

```
class UserAccessPermissions(IntFlag):
    """TABLE 3.20 User access permissions"""
   R1 = 1
   R2 = 2
   PRINT = 4
   MODIFY = 8
   EXTRACT = 16
   ADD OR MODIFY = 32
   R7 = 64
   R8 = 128
   FILL_FORM_FIELDS = 256
   EXTRACT_TEXT_AND_GRAPHICS = 512
   ASSEMBLE_DOC = 1024
   PRINT_TO_REPRESENTATION = 2048
   R13 = 2**12
   R14 = 2**13
   R15 = 2**14
   R16 = 2**15
   R17 = 2**16
   R18 = 2**17
   R19 = 2**18
   R20 = 2**19
   R21 = 2**20
   R22 = 2**21
   R23 = 2**22
   R24 = 2**23
   R25 = 2**24
   R26 = 2**25
   R27 = 2**26
   R28 = 2**27
   R29 = 2**28
   R30 = 2**29
   R31 = 2**30
   R32 = 2**31
class Ressources:
    """TABLE 3.30 Entries in a resource dictionary."""
   EXT_G_STATE = "/ExtGState" # dictionary, optional
   COLOR_SPACE = "/ColorSpace" # dictionary, optional
   PATTERN = "/Pattern" # dictionary, optional
   SHADING = "/Shading" # dictionary, optional
   XOBJECT = "/XObject" # dictionary, optional
   FONT = "/Font" # dictionary, optional
   PROC_SET = "/ProcSet" # array, optional
```

```
PROPERTIES = "/Properties" # dictionary, optional
class PagesAttributes:
   """Page Attributes, Table 6.2, Page 52."""
   TYPE = "/Type" # name, required; must be /Pages
   KIDS = "/Kids" # array, required; List of indirect references
   COUNT = "/Count" # integer, required; the number of all nodes und this node
   PARENT = "/Parent" # dictionary, required; indirect reference to pages object
class PageAttributes:
    """TABLE 3.27 Entries in a page object."""
   TYPE = "/Type" # name, required; must be /Page
   PARENT = "/Parent" # dictionary, required; a pages object
   LAST MODIFIED = (
       "/LastModified" # date, optional; date and time of last modification
   RESOURCES = "/Resources" # dictionary, required if there are any
   MEDIABOX = "/MediaBox" # rectangle, required; rectangle specifying page size
   CROPBOX = "/CropBox" # rectangle, optional; rectangle
   BLEEDBOX = "/BleedBox" # rectangle, optional; rectangle
   TRIMBOX = "/TrimBox" # rectangle, optional; rectangle
   ARTBOX = "/ArtBox" # rectangle, optional; rectangle
   BOX_COLOR_INFO = "/BoxColorInfo" # dictionary, optional
   CONTENTS = "/Contents" # stream or array, optional
   ROTATE = "/Rotate" # integer, optional; page rotation in degrees
   GROUP = "/Group" # dictionary, optional; page group
   THUMB = "/Thumb" # stream, optional; indirect reference to image of the page
   B = "/B" # array, optional
   DUR = "/Dur" # number, optional
   TRANS = "/Trans" # dictionary, optional
   ANNOTS = "/Annots" # array, optional; an array of annotations
   AA = "/AA" # dictionary, optional
   METADATA = "/Metadata" # stream, optional
   PIECE INFO = "/PieceInfo" # dictionary, optional
   STRUCT_PARENTS = "/StructParents" # integer, optional
   ID = "/ID" # byte string, optional
   PZ = "/PZ" # number, optional
   TABS = "/Tabs" # name, optional
   TEMPLATE_INSTANTIATED = "/TemplateInstantiated" # name, optional
   PRES_STEPS = "/PresSteps" # dictionary, optional
   USER_UNIT = "/UserUnit" # number, optional
   VP = "/VP" # dictionary, optional
```

class FileSpecificationDictionaryEntries:
 """TABLE 3.41 Entries in a file specification dictionary"""

```
Type = "/Type"
   FS = "/FS" # The name of the file system to be used to interpret this file
specification
    F = "/F" # A file specification string of the form described in Section 3.10.1
    EF = "/EF" # dictionary, containing a subset of the keys F , UF , DOS , Mac ,
and Unix
class StreamAttributes:
    """Table 4.2."""
    LENGTH = "/Length" # integer, required
   FILTER = "/Filter" # name or array of names, optional
   DECODE_PARMS = "/DecodeParms" # variable, optional -- 'decodeParams is wrong
class FilterTypes:
   Table 4.3 of the 1.4 Manual.
   Page 354 of the 1.7 Manual
   ASCII_HEX_DECODE = "/ASCIIHexDecode" # abbreviation: AHx
   ASCII_85_DECODE = "/ASCII85Decode" # abbreviation: A85
    LZW_DECODE = "/LZWDecode" # abbreviation: LZW
    FLATE_DECODE = "/FlateDecode" # abbreviation: Fl, PDF 1.2
   RUN LENGTH DECODE = "/RunLengthDecode" # abbreviation: RL
   CCITT FAX DECODE = "/CCITTFaxDecode" # abbreviation: CCF
    DCT_DECODE = "/DCTDecode" # abbreviation: DCT
class FilterTypeAbbreviations:
    """Table 4.44 of the 1.7 Manual (page 353ff)."""
   AHx = "/AHx"
   A85 = "/A85"
    LZW = "/LZW"
   FL = "/Fl" # FlateDecode
   RL = "/RL"
   CCF = "/CCF"
   DCT = "/DCT"
class LzwFilterParameters:
    """Table 4.4."""
   PREDICTOR = "/Predictor" # integer
   COLUMNS = "/Columns" # integer
```