NAME

cut — extract bytes, characters, or fields

SYNOPSIS

```
cut -f range[,range]... [-Czs] [-d elimiter] [-0 out-delimiter] [file]...
```

DESCRIPTION

Copies bytes, characters, or fieflds specified by ranges from each line of the input files (standard input stream if none or '-') to the standard output stream.

ranges can be separated by commas or spaces, and each can be in the format:

```
\begin{array}{ll} \textit{number} & \textit{number} \\ \textit{from-} & \textit{[from, } \infty) \\ \textit{from-to} & \textit{[number, to]} \\ & -\textit{to} & [1, \ \textit{to}] \end{array}
```

Indices are 1-based, and a union is taken of all ranges.

With **-b**, bytes are extracted; with **-n** characters are never interrupted mid-sequence, with rounding preferred down (see **EXAMPLES**).

The newline (NUL with -z) is never matched and always printed (unless the entire line was removed with -fs).

OPTIONS (ŁĆ łć)

```
    -b, --bytes=range[,range]...
    -n Don't interrupt multi-byte character sequences.
    -C, --complement Invert ranges: select all but what they match ([1, ∞) - Σrange). For the purposes of -n, the most minimal set
```

of ranges is constructed.

EXAMPLES

```
$ printf '\x01\x02\x03\x04\0\x05\x06\x07' | cut -zb 1,3- | hexdump -C
00000000 01 03 04 00 05 07 00
0000007
$ printf 'яйцо\nЯйцО''яйцо\nЯйцО''яйцо\nЯйцО''яйцо\nЯйцО' | cut -c 1,3-
яцо
ОДК
# name, IDs, homedir, shell, ...
$ cut -f 1,3-4,6- -d: -O"$(printf '\t')" /etc/passwd
root
       0
          0
                      /root /bin/bash
                      /bin
                              /usr/sbin/nologin
bin
       2
              2
       39
irc
              39
                     /var/run/ircd /usr/sbin/nologin
             100
cicada 1000
                     /home/cicada /bin/bash
nobody 65534 65534 /nonexistent
                                     /usr/sbin/nologin
# Everything else: password and GNATS
$ cut -Cf 1,3-4,6- -d: -O"$(printf '\t')" /etc/passwd
       root
х
       bin
х
       ircd
Х
х
       ŁĄĘĆŻŹŃ łąęćżźń,,,
х
       nobody
```