NAME

cut — extract bytes, characters, or fields

SYNOPSIS

```
cut -f range[,range]...[-Czs][-d elimiter][-O 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:

```
number {number}
from- [from, \infty)
from-to [number, to]
-to [1, to]
```

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 (ŁĄĘĆŻŹŃ łąęćżźń)

```
    -b, --bytes=range[,range]...
    -n Extract bytes.
    Don't interrupt multi-byte character sequences.
```

-C, --complement Invert ranges: select all but what they match ([1, ∞) -

 Σ range). For the purposes of -n, the most minimal set of ranges is constructed.

or range

EXAMPLES

\$ printf 'яйцо\nЯйцО''яйцо\nЯйцО''яйцо\nЯйцО''яйцо\nЯйцО' | cut -c 1,3-яцояцояцояцояцо

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```
# name, IDs, homedir, shell, ...
$ cut -f 1,3-4,6- -d: -O"$(printf '\t')" /etc/passwd
root
                   /root /bin/bash
      0 0
bin
       2
             2
                    /bin /usr/sbin/nologin
      39
             39
                    /var/run/ircd /usr/sbin/nologin
irc
cicada 1000 100
                     /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,,,
       nobody
Х
```