

(Downloaded from <https://cs.stanford.edu/~knuth/programs.html> and typeset on May 28, 2023)

**1. Intro.** A triviality to put the Flammenkamp–Clift table of addition chain data into the format of my ACHAIN programs.

```
#include <stdio.h>
main()
{
    register int c, h, i, j, k, n;
    for (n = 1, h = 0; ; n++) {
        if (!h) {
            c = fgetc(stdin);
            if (c == EOF) break;
            h = 3;
        } else h--, c >>= 2;
        for (i = j = 0, k = n; k >>= 1, j++) i += k & 1;
        for (i--; i; j++) i >>= 1;
        putchar((c & 3) + j + (' ' - 1));
    }
}
```

**2. Index.**

*c*: [1](#).

EOF: [1](#).

*fgetc*: [1](#).

*h*: [1](#).

*i*: [1](#).

*j*: [1](#).

*k*: [1](#).

*main*: [1](#).

*n*: [1](#).

*putchar*: [1](#).

*stdin*: [1](#).

# ACHAIN-DECODE

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