Reads characters from the stream pointed to by `stream` and stores them in the array pointed to by `s`. Reading stops at the first new-line character (which is stored in the string), when `n - 1` characters have been read, or at end-of-file. `fgets` appends a null character to the string.

Returns `s` (a pointer to the array in which the input is stored). Returns a null pointer if a read error occurs or `fgets` encounters the end of the stream before it has stored any characters. *22.5*

`fgetwc` *Read Wide Character from File (C99)* `<wchar.h>`

```
wint_t fgetwc(FILE *stream);
```

Wide-character version of `fgetc`. *25.5*

`fgetws` *Read Wide String from File (C99)* `<wchar.h>`

```
wchar_t *fgetws(wchar_t * restrict s, int n,
                FILE * restrict stream);
```

Wide-character version of `fgets`. *25.5*

`floor` *Floor* `<math.h>`

```
double floor(double x);
float floorf(float x);
long double floorl(long double x);
```

Returns Largest integer that is less than or equal to `x`. *23.3*

`fma` *Floating Multiply-Add (C99)* `<math.h>`

```
double fma(double x, double y, double z);
float fmaf(float x, float y, float z);
long double fmal(long double x, long double y,
                 long double z);
```

Returns $(x \times y) + z$. The result is rounded only once, using the rounding mode corresponding to `FLT_ROUNDS`. A range error may occur. *23.4*

`fmax` *Floating Maximum (C99)* `<math.h>`

```
double fmax(double x, double y);
float fmaxf(float x, float y);
long double fmaxl(long double x, long double y);
```

Returns Maximum of `x` and `y`. If one argument is a NaN and the other is numeric, the numeric value is returned. *23.4*

`fmin` *Floating Minimum (C99)* `<math.h>`

```
double fmin(double x, double y);
float fminf(float x, float y);
long double fminl(long double x, long double y);
```

Returns Minimum of `x` and `y`. If one argument is a NaN and the other is numeric, the numeric value is returned. *23.4*